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NURMIJÄRVI GEOPHYSICAL OBSERVATORY: MAGNETIC RESULTS 2016

KARI PAJUNPÄÄ
LASSE HÄKKINEN
TIERA LAITINEN

NURMIJÄRVI GEOPHYSICAL OBSERVATORY

MAGNETIC RESULTS 2016

Editors K. Pajunpää, L. Häkkinen and T. Laitinen

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Kari Pajunpää, Lasse Häkkinen and Tiera Laitinen

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Abstract
The magnetic yearbook of the magnetic recordings at the Nurmijärvi observatory contains tables, figures of hourly, monthly, and yearly means of the magnetic field components X, Y and Z as well as magnetic activity indices (K, Ak) in 2016. Magnetic isolines describing the distribution of geomagnetic field components in Finland 2017.0 are shown by a series of maps.

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Contents

1 Introduction

This report presents magnetic measurements carried out at the Nurmijärvi (NUR) Geophysical Observatory between January 1 and December 31, 2016. The observatory is operated by the Finnish Meteorological Institute (FMI) and is part of the Observation Services Division of the institute. Information about the IMAGE magnetometer network is included in this report, as it is partly operated by the observatory. The Nurmijärvi Geophysical Observatory started recording the Earth's magnetic field in April 1952. The first yearbook was for 1953.

2 Description of the observatory

The observatory is located some 40 km NNW from Helsinki in the northern part of the Nurmijärvi municipality having over 41,000 inhabitants. The observatory lies on a moraine ridge by the lake Sääksjärvi. The 7 ha forest area of the observatory is limited to the lake in the North and North-East, to a nature reserve forest in the South and to a private forest in the West. There are no artificial disturbance sources nearby.

The coordinates of the observatory are:

	Lat.	Lon.
Geographical	60°30.5′N	24°39.3′E
Geomagnetic	57°43.8′	113°28.8′
Corr.geomagnetic	56°49.2′	102°31.2′

The magnetic coordinates are referred to the IGRF-95 model:

L-value	3.3
Height	$105m$

The Nurmijärvi observatory is running two three-component magnetometers, which are controlled usually once per week with absolute measurements. A proton magnetometer started recording in 2013. Another magnetic recording system at the observatory is the three-component pulsation magnetometer of the Sodankylä Geophysical Observatory. The Observation Services Division makes continuous airborne radioactivity recording and operates the automatic weather station observing following: temperature, humidity, snow depth, current weather, rain and clouds. University of Leicester operates the radio transmitter for ionospheric research. The receiver is in United Kingdom. The Geological Survey is observing soil temperature and humidity. The Finnish Environment Institute is observing water level in the lake Sääksjärvi.

The Nurmijärvi observatory has a magnetic calibration and test laboratory for magnetometer and sight compass calibrations and for compass swing base measurements at airfields. FINAS (Finnish Accreditation Services) accredited the laboratory as the number K050 on 17th of August 2007. The accreditation was renewed in 2011.

The quality system of the Observation Services Division was certified by Det Norske Veritas in March 2012.

3 Recording instruments

The Danish suspended flux gate magnetometer (FGE-89) is the primary instrument. The second magnetometer, the Ukrainian LEMI-025, was installed in March 2013

and operates in the variation house producing correct one-second data. The sensors are directed in geographic North and East directions measuring the X, Y and Z components. Since June 2013 a proton magnetometer (GSM-90) is also recording in the variation room. The temperature in the variometer room is kept at $18°C$. Analog voltages from the FGE magnetometer are AD-converted in the variation room and the digital data are transferred through optical wires to the computers in the main observatory building. The digital data of the LEMI-025 and of the GSM-90 is transfered through wireless internet to the main observatory building.

The Linux based software stores the data in three files as one-second, ten-seconds and one-minute averages. Timing is based on GPS time shared through the local network. The standard one-minute values are averages over one minute periods starting and ending at a half minute (e.g. 59:30 - 00:30, 00:30 - 01:30, 01:30 - 02:30). The given time is the starting minute at the centre of the period (00, 01, 02 etc.).

4 Absolute measurements

The total field (F) was measured by the Polish PMP-7 proton precession magnetometer and declination and inclination with the DI-flux-magnetometer, which consists of a non-magnetic Zeiss-Jena theodolite (010B) and of a flux-gate element mounted on its telescope. The absolute measurements were made on average once a week. The baseline values as determined for the suspended FGE are shown in Fig. 3.

5 Data processing and dissemination

In the processing the final baseline values and sensitivities were used and hourly mean values were calculated. The measured baseline values were followed closer than half a nanoTesla. The 10-second and 1-minute digital data were visually inspected on the computer screen.

Tables showing the three-hour K-indices were computed from 10 s data using the 'FMI' algorithm. The upper limit for $K = 9$ is $750nT$.

Daily files of minute data were sent by e-mail to the INTERMAGNET system. In 2013 the 1-second data of the LEMI-025 magnetometer was started to send to the INTERMAGNET system. The final corrected minute values together with other required data were sent to the Paris server for the INTERMAGNET DVD 2016.

6 Secular results of IMAGE stations

The IMAGE magnetometer network (Fig. 2) consisted at the end of 2016 of 37 stations from Niemegk in Germany to Ny Ålesund on Svalbard. Until June 2016 the principal investigator of this international project was Eija Tanskanen at FMI, and from June 2016 onwards Liisa Juusola at FMI. At the end of 2016 twelve IMAGE stations were operated by FMI, ten in Finland (including Nurmijärvi), one in Estonia and one in northern Norway. Nurmijärvi, Oulujärvi and Ranua stations have LEMI-025 magnetometers providing correct one second data. At seven of the stations the service and absolute measurements were done in co-operation with the Sodankylä Geophysical Observatory of the Oulu University. The uncertainty of the annual mean values calculated for the IMAGE stations is estimated to be $\pm 5nT$.

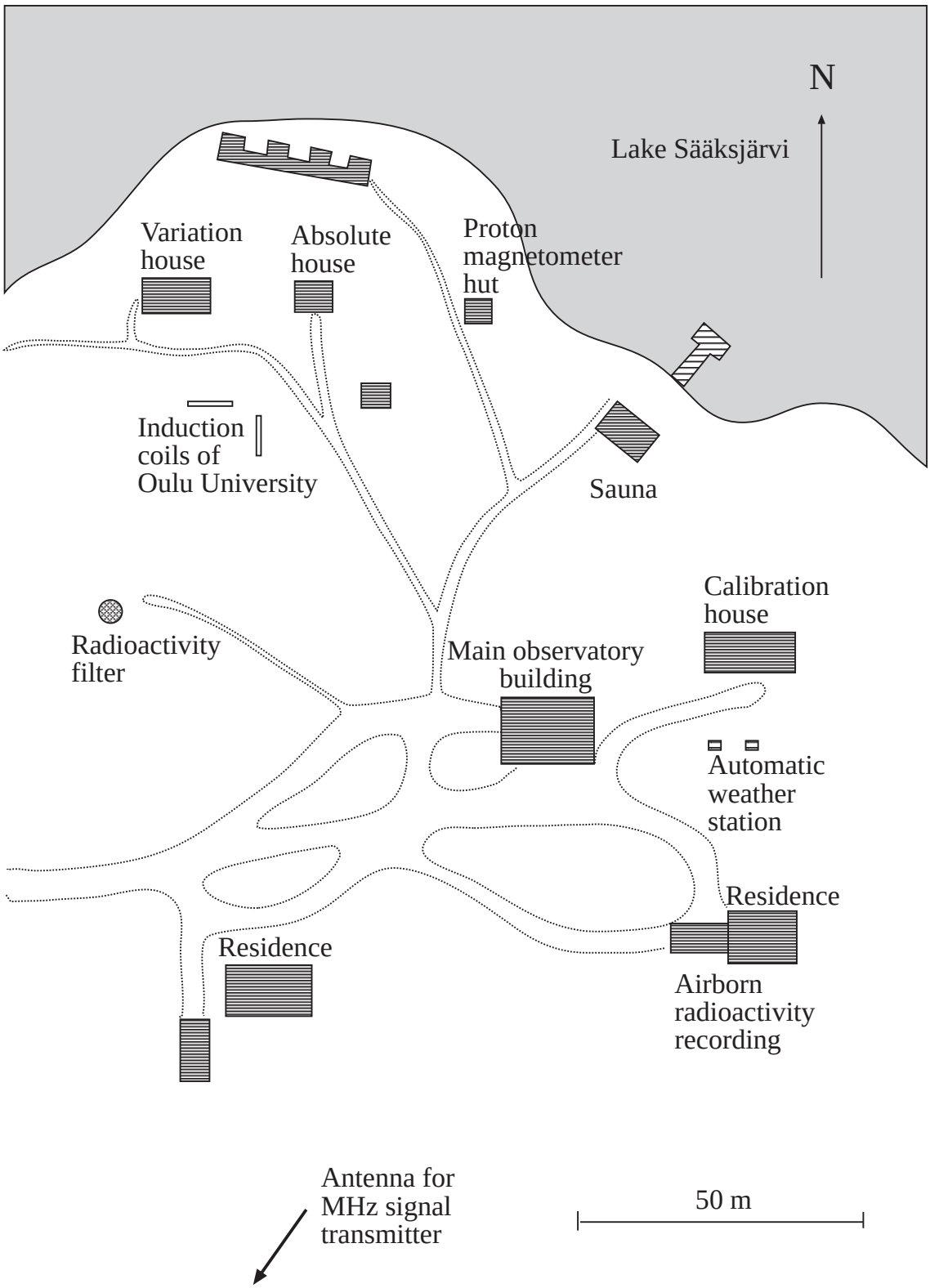


Figure 1: Map of the observatory area.

Year	X[nT]	Y[nT]	Z[nT]	
2002.5	11255	1600	51313	
2004.5	11237	1663	51392	
2005.5	11228	1690	51429	
2006.5	11229	1716	51459	
2007.5	11225	1747	51496	
2008.5	11217	1783	51529	
2009.5	11210	1820	51560	
2010.5	11197	1860	51596	
New-old	46	-76	78	New absolute point
2011.5	11225	1825	51713	
2012.5	11198	1871	51751	
2013.5	11175	1921	51788	
2014.5	11166	1954	51824	

Table 1: Annual mean values (all days) at the Pello IMAGE station.

The data sampling intervals at the IMAGE stations were 1, 10 and 60 seconds. The IMAGE standard used the 10s values and they were averages over the seconds 00-10, 10-20, 20-30 etc. The time stamp given for the 10-second period was the first second of that period.

All of the stations had either ADSL or direct network connections. The data of the twelve stations were processed and inspected at FMI and were sent for IMAGE filing.

6.1 Pello IMAGE station

Pello (PEL) (66°54.2′N, 24°04.7′E) close to the border with Sweden in Lapland has a tilt suspended FGE magnetometer and absolute measurements are made once or twice in Summer. The annual mean values for all days were calculated and are listed in table 1.

6.2 Oulujärvi IMAGE station

At Oulujärvi (OUJ) (64°31′N, 27°14′E) the tilt suspended LEMI-025 magnetometer is operating in the variation room. In the table 2 the annual mean values are for the last 10 years. The magnetometer is in a temperature controlled hut. Oulujärvi is a station of the Oulu University.

6.3 Tartu IMAGE station

Tartu (TAR) IMAGE station (58°15.8′N, 26°27.6′E) is located in the area of Tõravere observatory of the Tartu University. The observatory has meteorological and astronomical observation systems. The station was not visited in 2014. A tilt suspended FGE is the magnetometer at Tartu.

6.4 Virolahti repeat station

Virolahti (60°33.7′N, 27°33.4′E) in the South-East Finland is one of the old repeat stations in Finland started in 1947. The table 4 shows the results from the recent

Year	X[nT]	Y[nT]	Z[nT]	
2004.5	12878	2228	50998	
2005.5	12867	2256	51035	
2006.5	12866	2283	51063	
New-old	-21	+19	+9	New absolute house
2007.5	12837	2333	51106	
2008.5	12831	2366	51139	
2009.5	12824	2400	51173	
2010.5	12810	2431	51210	
2011.5	12785	2478	51251	
2012.5	12769	2524	51290	
2013.5	12758	2567	51323	
2014.5	12746	2603	51362	

Table 2: Annual mean values (all days) at the Oulujärvi IMAGE station.

Year	X[nT]	Y[nT]	Z[nT]
2002.5	15714	1981	48694
2004.5	15707	2040	48778
2005.5	15698	2070	48818
2006.5	15699	2098	48843
2007.5	15697	2131	48876
2008.5	15695	2162	48909
2009.5	15688	2203	48941
2011.5	15665	2281	49020
2012.5	15653	2316	49063
2013.5	15639	2368	49098
2014.5	15594	2455	49134

Table 3: Annual mean values (all days) at the Tartu IMAGE station.

Year	D[°]	H[nT]	Z[nT]
2002.5	7.763	14583	49655
2004.5	8.001	14580	49740
2005.5	8.118	14580	49778
2006.5	8.224	14583	49805
2007.5	8.357	14587	49839
2008.5	8.491	14596	49871
2009.5	8.624	14593	49900
2010.5	8.787	14571	49944
2012.5	9.136	14587	50014
2013.5	9.250	14554	50061
2014.5	9.550	14526	50107

Table 4: Reduced results from the Virolahti repeat station.

years.

7 IMAGE Magnetometer Network

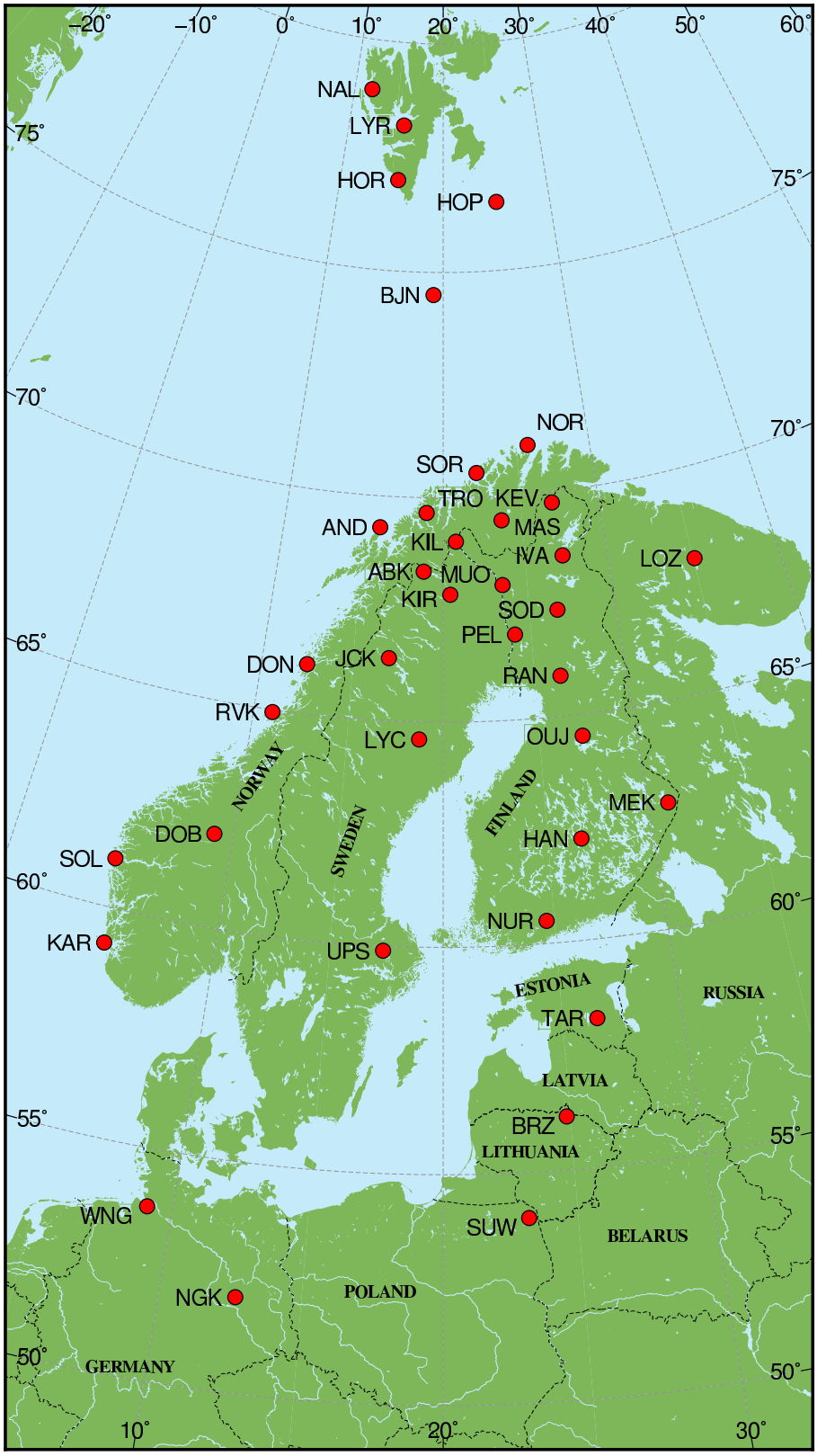
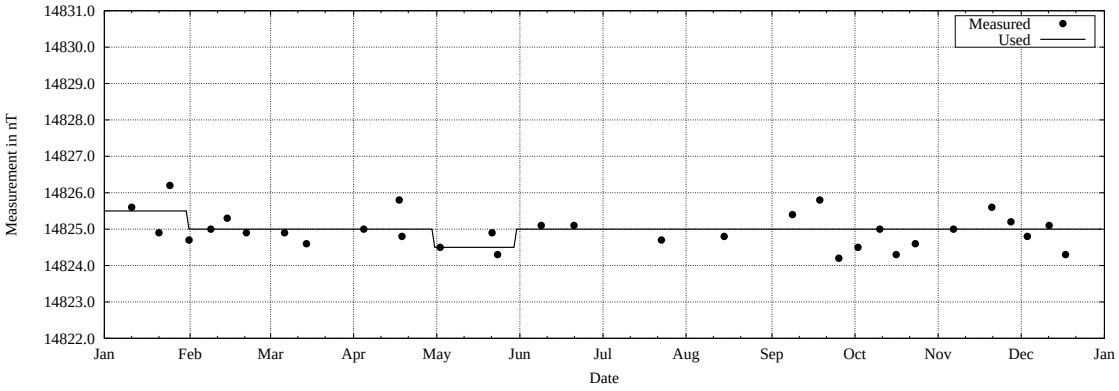
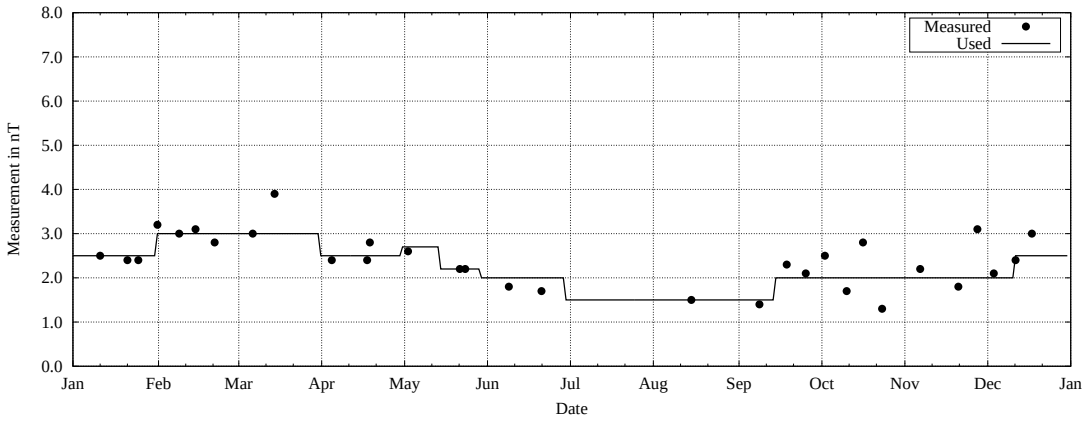


Figure 2: Map of IMAGE magnetometer network, December 2016

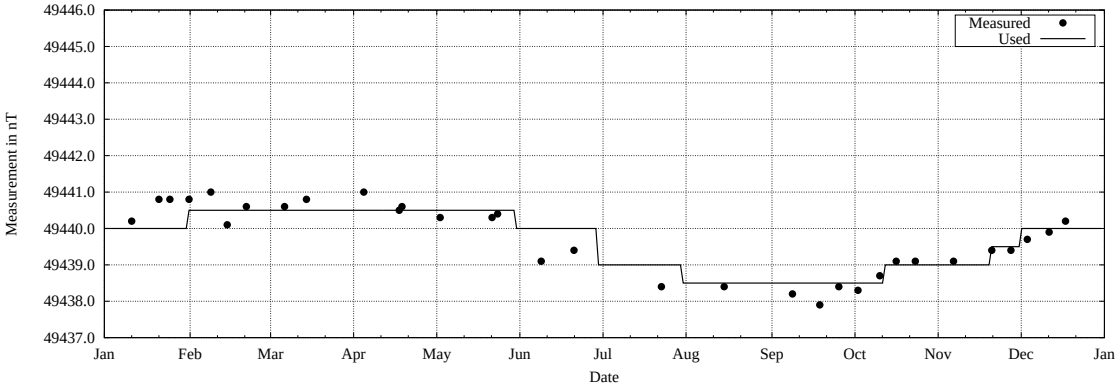
8 Baseline Measurements for FGE



(a) Baseline measurements for X component



(b) Baseline measurements for Y component



(c) Baseline measurements for Z component

Figure 3: Baseline measurements

9 Tables of Hourly Means of X, Y, and Z

Explanations of the tables:

- **X** is the North component of the magnetic vector
- **Y** is the East component of the magnetic vector
- **Z** is the vertical component of the magnetic vector
- The unit is nanotesla (nT) = 10^{-9} T
- The time is universal time (UTC). The local time is UTC + 2 h (during the daylight saving time UTC + 3 h)

Nurmijarvi Finland

January 2016 North component X in nT (X = 14900 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1	D	-247	-243	-182	-101	-118	-129	-125	-116	-136	-143	-127	-115	-110	-109	-113	-107	-107	-104	-105	-102	-100	-102	-102	-107	-127
2		-110	-109	-108	-110	-111	-103	-95	-94	-94	-99	-104	-104	-96	-94	-95	-101	-108	-102	-98	-98	-94	-92	-95	-98	-100
3		-100	-97	-96	-96	-94	-90	-94	-99	-100	-106	-108	-105	-102	-95	-93	-100	-106	-100	-106	-106	-101	-110	-98	-99	-100
4		-100	-99	-97	-96	-93	-93	-93	-100	-99	-102	-103	-102	-97	-93	-92	-91	-93	-101	-96	-96	-90	-90	-95	-95	-96
5		-94	-92	-91	-89	-85	-81	-81	-83	-82	-88	-96	-96	-92	-86	-83	-83	-81	-86	-92	-95	-98	-88	-87	-86	-88
6	D	-97	-84	-95	-100	-92	-86	-85	-91	-100	-118	-131	-123	-105	-102	-105	-107	-93	-92	-93	-96	-99	-105	-111	-94	-100
7	D	-93	-110	-122	-91	-85	-85	-91	-100	-107	-105	-116	-106	-102	-103	-99	-100	-96	-104	-97	-104	-103	-98	-91	-92	-100
8		-94	-97	-92	-93	-94	-89	-93	-96	-106	-110	-105	-103	-107	-100	-105	-98	-95	-98	-97	-97	-97	-88	-89	-90	-97
9		-97	-97	-92	-91	-86	-87	-88	-92	-97	-102	-105	-107	-102	-98	-99	-97	-97	-93	-92	-91	-88	-88	-90	-88	-94
10		-90	-92	-92	-83	-81	-84	-84	-87	-93	-98	-106	-98	-100	-97	-95	-98	-94	-94	-93	-88	-84	-101	-104	-98	-93
11		-95	-92	-91	-87	-83	-80	-85	-93	-103	-100	-101	-102	-101	-98	-95	-98	-104	-106	-102	-102	-101	-97	-107	-120	-98
12		-98	-113	-104	-99	-98	-93	-90	-102	-103	-105	-106	-104	-103	-92	-89	-90	-95	-90	-93	-85	-107	-110	-101	-102	-99
13		-114	-99	-101	-89	-93	-91	-95	-97	-104	-106	-102	-98	-98	-104	-105	-100	-98	-95	-85	-103	-95	-95	-94	-96	-98
14		-95	-95	-95	-93	-91	-87	-92	-94	-101	-104	-98	-96	-95	-102	-104	-105	-111	-112	-108	-97	-99	-87	-94	-98	-98
15		-99	-98	-94	-94	-93	-93	-94	-95	-100	-100	-98	-97	-97	-96	-95	-96	-94	-91	-96	-95	-96	-91	-95	-96	-95
16	Q	-96	-94	-92	-90	-90	-88	-90	-91	-90	-91	-92	-91	-87	-84	-88	-89	-90	-91	-88	-88	-86	-88	-91	-93	-90
17	Q	-92	-91	-89	-87	-87	-84	-83	-88	-96	-99	-97	-96	-94	-95	-96	-100	-105	-111	-108	-101	-96	-95	-93	-92	-95
18		-92	-91	-90	-89	-87	-87	-88	-92	-97	-99	-100	-100	-99	-100	-98	-97	-104	-110	-98	-92	-91	-90	-79	-89	-94
19		-80	-90	-97	-100	-94	-86	-86	-87	-94	-97	-94	-94	-96	-93	-91	-92	-91	-91	-89	-89	-88	-89	-85	-88	-91
20	D	-86	-85	-83	-81	-78	-77	-83	-88	-102	-113	-109	-112	-105	-92	-53	38	30	89	-99	-135	-160	-149	-145	-156	-85
21	D	-140	-137	-118	-120	-118	-120	-102	-102	-111	-116	-124	-118	-115	-113	-109	-110	-96	-122	-124	-111	-128	-155	-84	-113	-117
22		-131	-113	-110	-104	-98	-111	-114	-102	-105	-112	-110	-110	-113	-109	-100	-99	-102	-99	-102	-101	-100	-102	-102	-104	-106
23		-104	-101	-100	-99	-102	-88	-87	-92	-109	-102	-104	-105	-107	-114	-104	-105	-99	-117	-107	-105	-101	-99	-98	-102	-102
24		-107	-100	-103	-102	-96	-97	-92	-100	-105	-106	-106	-101	-93	-92	-95	-94	-98	-90	-113	-103	-95	-94	-95	-97	-99
25	Q	-96	-96	-96	-95	-94	-94	-94	-101	-108	-112	-111	-107	-101	-93	-90	-90	-91	-91	-92	-92	-92	-93	-93	-94	-97
26		-94	-91	-89	-88	-87	-86	-87	-93	-97	-99	-97	-94	-94	-89	-88	-84	-86	-87	-86	-87	-88	-89	-90	-88	-90
27		-91	-92	-90	-85	-83	-80	-83	-86	-91	-97	-102	-100	-96	-91	-93	-96	-94	-88	-86	-86	-86	-88	-89	-90	-90
28		-90	-89	-86	-84	-82	-79	-82	-85	-98	-108	-107	-113	-109	-101	-97	-97	-96	-102	-107	-104	-101	-95	-89	-94	-96
29	Q	-95	-94	-94	-91	-91	-90	-91	-92	-100	-106	-108	-106	-103	-101	-98	-98	-99	-101	-98	-98	-95	-93	-91	-94	-97
30	Q	-92	-92	-89	-87	-86	-85	-84	-87	-90	-93	-94	-97	-96	-93	-91	-91	-93	-88	-86	-85	-87	-88	-88	-89	-90
31		-89	-86	-88	-84	-82	-84	-83	-85	-97	-101	-106	-108	-109	-112	-110	-105	-118	-123	-123	-125	-139	-134	-132	-138	-107
All		-103	-102	-99	-93	-92	-90	-91	-94	-100	-104	-105	-103	-101	-98	-96	-93	-94	-93	-99	-99	-100	-99	-97	-99	-98
Quiet		-94	-93	-92	-90	-90	-88	-88	-92	-97	-100	-100	-99	-96	-93	-93	-94	-96	-96	-95	-93	-91	-91	-91	-92	-94
Dist.		-133	-132	-120	-98	-98	-99	-97	-99	-111	-119	-121	-114	-107	-104	-96	-77	-72	-66	-103	-110	-118	-122	-107	-113	-106

January 2016 East component Y in nT (Y = 1400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1	D	845	805	753	693	637	630	650	707	699	688	701	694	690	688	694	692	690	693	698	699	698	702	700	703	702
2		705	689	702	703	698	700	698	696	692	689	690	688	680	690	691	689	693	696	699	705	706	705	698	695	696
3		695	693	695	696	696	699	698	700	699	695	687	682	683	690	693	691	691	712	703	707	706	712	694	697	696
4		697	696	696	693	692	697	698	698	700	696	689	681	681	687	691	692	691	706	700	700	701	702	696	695	695
5		694	692	693	693	693	692	693	697	695	692	689	684	683	685	687	689	689	691	691	704	704	696	692	687	692
6	D	670	686	710	703	697	696	699	698	703	701	695	676	689	690	695	711	691	690	694	703	727	736	706	694	698
7	D	694	698	689	697	697	696	695	696	695	685	693	697	689	690	698	714	693	694	738	725	710	699	696	695	699
8		695	699	696	693	683	692	698	698	695	695	692	682	692	689	712	691	692	694	707	700	700	701	701	705	696
9		701	698	696	696	695	696	695	696	698	697	692	691	684	686	684	691	694	699	695	696	697	698	698	694	694
10		694	695	696	694	693	694	699	699	701	697	694	684	683	690	687	693	692	692	695	702	728	744	713	701	698
11		696	695	694	692	688	686	696	702	703	697	692	689	686	689	684	682	684	672	691	744	711	709	775	755	701
12		719	716	691	694	694	696	700	707	705	704	696	682	685	688	687	682	687	688	694	736	733	745	717	718	703
13		708	726	708	695	693	700	701	702	702	698	696	688	684	689	697	691	691	714	729	713	700	700	699	698	701
14		698	697	694	691	694	695	700	702	703	705	698	687	684	686	690	690	691	692	699	704	710	704	703	703	697
15		701	702	710	702	701	701	701	698	693	690	687	685	689	690	691	692	695	700	698	698	701	699	698	698	697
16	Q	697	696	695	695	698	698	700	699	696	693	690	686	687	689	691	694	694	696	696	698	697	698	699	699	695
17	Q	697	698	698	698	698	699	701	701	701	697	691	684	684	689	681	684	690	695	703	704	702	700	697	696	695
18		696	694	694	694	695	698	701	703	700	697	693	688	687	684	687	690	691	693	695	696	698	696	694	695	694
19		695	715	706	699	701	703	701	701	698	693	685	685	688	689	691	692	692	693	693	694	694	694	696	693	695
20	D	690	689	689	690	691	693	684	688	694	698	687	689	669	650	657	647	628	673	749	740	756	783	760	736	697
21	D	731	736	731	713	717	696	687	701	697	685	694	675	686	685	691	673	729	694	701	715	715	708	749	723	705
22		732	699	694	703	702	703	698	709	699	703	703	685	687	693	690	683	692	696	698	703	693	709	720	706	700
23		698	703	700	699	682	683	699	695	707	705	699	685	680	687	695	692	704	723	699	706	708	705	707	703	699
24		687	696	703	699	699	700	702	703	702	700	694	685	676	680	681	665	683	691	733	768	711	703	700	698	698
25	Q	697	696	696	697	697	699	702	705	704	700	694	689	687	690	694	695	696	696	698	699	700	699	699	698	697
26		696	695	694	694	696	699	703	705	704	699	695	688	686	688	691	693	692	694	695	696	697	698	703	705	696
27		702	700	699	697	697	697	700	703	702	700	696	690	686	686	688	691	691	693	695	695	696	701	702	701	696
28		699	699	698	697	697	698	699	701	700	699	694	687	681	686	690	694	695	697	704	705	704	705	708	704	698
29	Q	699	697	696	695	698	701	705	707	706	700	695	690	686	688	691	695	697	697	699	703	702	703	702	702	698
30	Q	698	696	696	696	697	699	701	703	700	695	691	689	686	687	691	693	697	693	694	695	698	701	703	701	696
31		693	696	699	700	697	693	688	696	701	691	685	682	673	660	673	680	670	693	708	716	742	743	777	741	700
All		704	703	700	697	694	694	697	700	700	696	693	686	684	686	689	689	690	695	703	709	708	710	710	704	697
Quiet		698	697	696	696	698	699	702	703	702	697	692	688	686	688	690	692	695	695	698	700	700	700	700	699	696
Dist.		726	723	714	699	688	682	683	698	698	691	694	686	685	680	687	687	686	689	716	716	721	725	722	710	700

January 2016 Vertical component Z in nT (Z = 49400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1	D	574	535	544	570	585	597	637	681	697	704	707	710	710	712	711	714	713	712	715	715	715	711	708	707	670
2		707	698	701	701	706	707	706	703	702	703	700	705	710	708	707	709	715	714	711	708	706	698	699	702	705
3		702	701	701	701	701	701	701	701	703	701	701	703	706	706	704	705	711	716	712	712	702	692	676	696	702
4		701	702	701	701	701	701	702	702	702	701	701	702	704	704	702	701	702	707	704	704	702	696	698	700	702
5		700	699	699	698	698	697	697	696	695	696	697	699	700	699	698	697	696	697	699	702	698	695	693	691	697
6	D	670	618	663	682	693	695	695	695	698	703	711	714	713	708	707	710	704	702	703	706	707	691	681	655	693
7	D	683	678	660	676	690	692	695	696	698	697	698	705	704	706	710	712	705	709	710	702	700	697	693	692	696
8		692	695	695	695	695	696	698	698	697	699	700	701	708	706	712	703	703	703	705	701	701	695	690	689	699
9		688	694	696	696	697	696	696	696	694	696	699	701	702	703	705	704	706	703	701	700	699	697	696	694	698
10		684	682	689	692	693	694	695	692	691	693	697	699	700	703	703	702	701	701	701	701	683	677	691	695	694
11		695	694	694	694	691	689	692	692	689	690	694	698	701	703	703	707	711	728	729	719	709	711	713	696	702
12		682	679	695	698	701	702	701	703	703	701	699	699	703	703	701	702	705	703	708	705	694	696	699	686	699
13		656	647	679	680	685	694	699	699	695	695	697	697	700	704	710	707	707	710	696	693	699	699	698	698	694
14		697	697	696	696	698	698	698	698	699	699	698	701	704	705	708	716	725	724	713	709	691	682	696	702	
15		698	697	693	692	696	697	698	696	694	695	696	700	704	704	704	704	703	703	704	703	703	699	698	699	699
16	Q	699	699	699	698	698	697	696	695	696	697	698	698	699	698	698	698	697	698	698	698	697	697	697	697	697
17	Q	697	696	697	697	697	697	697	695	695	694	693	697	703	703	703	705	710	717	716	712	707	703	700	699	701
18		699	699	698	698	698	698	698	697	696	695	694	696	700	701	702	702	706	714	708	704	701	699	694	683	699
19		634	635	661	678	690	695	694	694	693	695	694	695	700	703	700	698	698	699	698	698	697	696	695	695	689
20	D	694	695	695	695	695	694	693	692	695	699	709	740	735	759	864	967	953	905	858	827	769	745	738	686	758
21	D	681	659	669	705	699	665	674	691	702	703	707	710	711	718	721	727	745	726	742	733	681	592	634	671	694
22		673	667	694	708	698	704	702	704	703	705	706	706	709	714	713	712	714	711	711	711	700	692	700	704	703
23		705	704	703	700	691	690	694	694	699	705	704	706	711	718	714	715	721	722	716	716	713	708	704	701	706
24		687	684	689	702	704	707	706	704	703	701	700	700	705	708	709	714	719	713	718	709	697	702	702	700	703
25	Q	701	702	702	702	703	703	704	703	702	700	702	704	705	706	705	703	703	702	702	702	701	701	700	700	702
26		700	700	699	699	699	699	700	700	700	699	697	698	700	700	701	700	699	699	699	698	698	698	697	699	
27		694	696	697	697	697	697	697	696	696	696	696	698	700	701	701	700	701	700	699	698	698	698	697	695	698
28		694	696	697	696	696	696	697	696	696	696	698	698	700	704	704	703	702	704	708	706	703	699	696	695	699
29	Q	698	698	699	699	699	699	700	700	699	699	698	696	699	702	703	702	703	704	705	704	703	700	697	696	700
30	Q	697	698	698	698	698	698	698	697	695	694	695	696	697	699	699	700	701	699	698	698	698	698	696	693	697
31		685	682	686	690	692	693	691	689	690	692	694	698	702	708	716	717	731	739	734	731	718	702	620	650	698
All		686	681	687	691	693	693	695	697	697	698	699	702	705	707	711	714	716	716	714	711	703	696	693	692	700
Quiet		698	698	699	699	699	699	699	698	697	697	697	698	700	702	701	702	703	704	704	703	701	700	698	697	700
Dist.		660	637	646	666	672	669	679	691	698	701	706	716	715	721	743	766	764	751	746	737	714	687	691	682	702

Nurmijarvi Finland

February 2016 North component X in nT (X = 14900 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		-116	-121	-109	-98	-103	-90	-98	-106	-107	-102	-107	-110	-113	-111	-106	-104	-101	-97	-94	-94	-95	-96	-95	-94	-103
2		-94	-93	-93	-94	-92	-89	-87	-83	-83	-86	-94	-96	-91	-87	-85	-98	-95	-99	-101	-93	-91	-106	-109	-113	-94
3		-116	-103	-103	-95	-88	-91	-93	-95	-95	-101	-104	-104	-100	-95	-92	-93	-95	-98	-98	-96	-96	-92	-93	-93	-97
4		-93	-93	-91	-89	-86	-85	-85	-90	-93	-94	-98	-99	-107	-101	-96	-94	-96	-88	-88	-93	-90	-88	-87	-86	-92
5		-90	-96	-87	-85	-84	-93	-89	-87	-90	-104	-107	-103	-99	-97	-104	-94	-101	-99	-103	-78	-94	-94	-94	-89	-94
6		-92	-93	-93	-93	-90	-86	-87	-95	-100	-103	-107	-104	-99	-94	-93	-93	-88	-90	-95	-99	-95	-89	-93	-94	-94
7		-91	-92	-89	-86	-84	-84	-81	-85	-84	-87	-91	-97	-103	-99	-95	-103	-112	-124	-122	-119	-118	-117	-119	-121	-100
8	D	-144	-148	-98	-89	-102	-98	-122	-115	-105	-111	-115	-119	-110	-102	-100	-101	-101	-98	-97	-97	-97	-98	-96	-96	-107
9		-94	-93	-88	-86	-84	-83	-83	-82	-87	-102	-107	-109	-97	-87	-96	-93	-95	-92	-90	-93	-93	-95	-82	-97	-92
10		-102	-102	-88	-93	-94	-94	-97	-100	-104	-105	-108	-107	-102	-100	-100	-98	-95	-94	-95	-97	-101	-98	-104	-104	-99
11		-99	-98	-97	-94	-83	-80	-83	-91	-92	-96	-105	-108	-107	-102	-100	-103	-112	-104	-98	-92	-93	-99	-129	-143	-100
12		-125	-123	-116	-108	-108	-100	-95	-94	-90	-91	-112	-113	-99	-95	-97	-90	-89	-88	-85	-77	-76	-78	-81	-83	-96
13		-85	-88	-86	-79	-74	-76	-87	-90	-93	-98	-107	-111	-104	-94	-88	-90	-91	-91	-89	-88	-87	-86	-88	-89	-90
14		-92	-93	-94	-90	-89	-89	-89	-91	-98	-104	-107	-105	-100	-100	-94	-95	-105	-118	-96	-92	-91	-93	-89	-87	-96
15		-84	-89	-92	-88	-86	-89	-87	-86	-93	-99	-102	-102	-101	-98	-93	-89	-90	-86	-85	-90	-92	-97	-122	-105	-93
16	D	-141	-130	-97	-104	-95	-92	-84	-84	-88	-115	-105	-88	-100	-120	-67	-97	-88	-97	-122	-124	-105	-110	-147	-140	-106
17	D	-120	-155	-128	-104	-101	-96	-108	-126	-116	-102	-110	-116	-112	-109	-98	-104	-107	-104	-87	-95	-120	-172	-187	-143	-117
18	D	-148	-118	-139	-177	-122	-106	-123	-113	-124	-142	-122	-110	-109	-111	-101	-102	-114	-98	-72	-113	-121	-107	-120	-111	-118
19	D	-97	-108	-113	-113	-102	-100	-102	-103	-104	-108	-108	-126	-102	-103	-102	-105	-76	-117	-84	-107	-113	-104	-105	-106	-104
20		-99	-104	-104	-101	-101	-100	-99	-101	-109	-113	-117	-112	-106	-100	-102	-98	-103	-101	-97	-99	-99	-99	-96	-93	-102
21	Q	-97	-98	-95	-96	-94	-94	-90	-96	-105	-107	-107	-105	-100	-99	-100	-97	-94	-94	-96	-101	-102	-93	-92	-92	-98
22	Q	-93	-94	-94	-94	-93	-90	-90	-93	-100	-105	-103	-100	-94	-90	-87	-90	-90	-90	-88	-87	-88	-89	-89	-88	-93
23		-91	-89	-92	-90	-88	-87	-85	-87	-92	-98	-103	-97	-95	-92	-91	-88	-90	-88	-96	-93	-98	-95	-108	-97	-93
24		-94	-99	-94	-94	-94	-95	-96	-102	-107	-109	-105	-100	-94	-97	-89	-88	-90	-94	-88	-88	-98	-97	-93	-95	-96
25		-85	-90	-92	-92	-88	-87	-82	-84	-90	-97	-100	-99	-98	-95	-90	-86	-82	-83	-85	-83	-76	-75	-82	-88	-88
26		-76	-96	-92	-88	-80	-83	-87	-91	-96	-102	-105	-103	-103	-95	-93	-95	-92	-91	-89	-91	-95	-89	-87	-88	-92
27	Q	-87	-87	-87	-86	-84	-82	-79	-85	-94	-101	-106	-106	-97	-90	-86	-85	-88	-90	-91	-90	-88	-84	-87	-87	-90
28	Q	-85	-85	-86	-86	-85	-81	-82	-89	-97	-98	-97	-93	-90	-92	-98	-94	-90	-87	-87	-88	-89	-90	-95	-93	-90
29	Q	-92	-90	-87	-86	-84	-84	-85	-85	-87	-92	-100	-95	-90	-90	-83	-83	-83	-81	-78	-76	-75	-80	-90	-100	-86
All		-101	-102	-97	-96	-92	-90	-92	-94	-97	-102	-105	-105	-101	-98	-94	-95	-95	-96	-93	-94	-96	-97	-102	-100	-97
Quiet		-91	-91	-90	-89	-88	-86	-85	-90	-97	-101	-102	-100	-94	-92	-91	-90	-89	-88	-88	-88	-88	-87	-91	-92	-91
Dist.		-130	-132	-115	-117	-104	-99	-108	-108	-107	-116	-112	-112	-106	-109	-94	-102	-97	-103	-92	-107	-111	-118	-131	-119	-110

February 2016 East component Y in nT (Y = 1400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		745	726	719	712	692	686	697	703	698	694	701	698	692	691	694	694	695	694	696	699	702	701	701	700	701
2		699	698	697	698	698	699	699	702	702	692	692	687	683	683	684	683	688	687	701	700	703	733	720	721	698
3		762	772	745	743	704	692	708	713	705	698	690	685	682	684	690	695	697	696	696	700	699	701	700	699	707
4		698	696	696	697	697	699	702	707	704	697	692	686	682	691	691	691	693	693	695	705	702	698	697	695	696
5		696	684	692	697	698	700	698	702	697	698	693	691	684	683	692	698	695	701	713	712	711	706	700	698	698
6		698	696	693	686	697	706	708	708	702	694	693	688	691	690	693	698	700	706	699	708	708	704	704	708	699
7		709	705	700	698	699	699	700	703	700	696	689	683	679	677	677	694	738	691	707	729	728	733	740	749	705
8	D	778	731	722	746	719	720	703	678	705	699	688	689	686	691	693	695	698	700	700	701	706	706	701	700	706
9		703	703	698	707	704	701	700	698	698	697	689	676	677	677	687	683	689	694	695	700	706	713	742	720	698
10		715	709	699	714	712	709	706	705	702	699	695	693	689	689	692	695	696	696	709	704	706	717	718	716	704
11		722	718	713	711	712	704	698	694	694	689	687	679	675	670	665	671	662	695	697	702	711	715	753	759	700
12		756	740	723	720	714	708	707	707	703	688	699	680	683	678	681	686	687	686	683	690	695	701	700	706	701
13		706	704	703	701	699	699	702	699	700	694	693	688	682	680	685	693	697	697	698	699	701	704	705	704	697
14		702	702	694	696	705	707	702	703	702	697	689	684	682	687	693	693	700	732	698	700	707	712	704	702	700
15		704	701	694	707	709	705	698	690	700	690	689	677	681	688	690	691	690	691	692	697	713	720	709	729	698
16	D	738	697	728	721	719	717	725	720	709	706	691	671	650	663	647	719	683	775	718	731	750	728	731	700	710
17	D	732	724	693	709	709	710	713	713	709	706	685	689	679	699	677	711	689	694	752	764	802	772	762	787	720
18	D	742	699	716	708	707	712	720	719	700	697	692	686	685	700	699	699	727	696	763	728	718	709	689	687	708
19	D	716	722	706	700	704	711	713	716	715	710	698	702	696	691	701	705	747	708	735	731	725	723	711	707	712
20		694	700	706	706	703	704	713	717	716	712	703	692	690	692	696	700	697	697	700	702	706	706	705	701	702
21	Q	706	705	706	709	707	706	709	710	711	707	701	696	691	691	696	694	696	695	702	713	722	740	725	710	706
22	Q	704	703	706	707	706	705	706	707	703	697	689	688	684	683	687	689	693	697	700	701	704	704	705	706	699
23		706	702	701	704	704	704	704	707	705	697	693	689	685	683	687	688	689	689	699	698	712	769	745	734	704
24		727	715	718	713	712	708	709	709	705	698	688	682	675	682	681	685	687	689	692	698	717	707	710	710	701
25		714	715	711	710	711	707	703	709	708	705	699	691	684	685	685	687	688	686	688	695	696	696	701	708	699
26		716	710	699	693	704	701	703	708	710	705	697	689	690	690	693	696	695	696	698	707	715	706	702	701	701
27	Q	701	700	699	698	697	698	698	703	701	691	684	687	685	687	689	693	695	695	696	698	703	705	704	702	696
28	Q	700	699	702	703	704	705	708	709	706	695	685	679	678	684	687	691	696	699	700	703	708	709	713	707	699
29	Q	700	693	702	703	704	706	708	707	704	698	691	685	683	688	691	694	695	695	695	695	695	700	718	721	699
All		717	709	706	707	705	704	705	706	704	698	692	686	683	685	687	693	697	699	704	707	713	715	714	713	702
Quiet		702	700	703	704	703	704	706	707	705	698	690	687	684	687	690	692	695	696	698	702	706	712	713	709	700
Dist.		741	714	713	717	712	714	715	709	708	704	691	687	679	689	683	706	709	714	734	731	740	727	719	716	711

February 2016 Vertical component Z in nT (Z = 49400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		655	664	664	675	679	679	688	694	692	690	692	694	698	704	706	705	704	704	703	703	702	701	700	699	692
2		699	698	698	698	698	697	697	697	693	692	692	692	694	698	701	704	705	712	718	714	708	711	701	683	700
3		648	620	600	626	648	666	689	694	692	692	692	695	700	702	702	701	700	701	702	701	700	699	699	699	682
4		699	699	699	699	699	699	700	699	697	697	698	698	701	705	703	703	705	702	701	702	700	698	697	696	700
5		693	687	689	690	696	696	701	700	696	694	695	695	698	704	707	706	706	710	714	687	688	691	686	689	697
6		695	696	694	690	690	694	694	696	694	696	696	699	703	703	702	704	702	701	703	704	698	680	677	683	696
7		676	688	693	695	695	696	694	691	689	687	686	690	698	704	708	713	723	720	729	727	715	700	688	668	699
8	D	619	587	586	645	675	682	686	687	698	697	698	700	701	705	707	704	704	703	703	703	702	701	700	700	683
9		700	697	694	695	695	694	693	693	694	698	704	707	706	707	707	709	707	708	710	708	706	696	696	692	700
10		695	694	679	684	690	693	695	695	691	691	693	695	697	701	703	703	702	703	704	704	705	703	699	698	697
11		694	693	692	690	688	685	685	687	689	690	693	696	702	710	714	721	728	724	714	708	710	697	672	667	698
12		681	700	696	697	702	705	705	704	701	697	698	701	706	707	705	705	704	710	719	717	711	704	700	698	703
13		698	698	698	697	694	693	696	697	694	693	695	698	702	704	702	700	699	700	701	701	700	699	697	696	698
14		697	697	696	695	695	695	696	696	695	698	700	701	703	705	711	711	720	730	713	708	705	700	699	695	702
15		689	687	684	692	694	695	694	692	688	688	693	697	699	704	705	704	702	701	701	703	705	696	638	584	689
16	D	621	589	669	689	693	689	690	689	692	695	699	706	718	730	812	769	804	756	774	750	626	649	644	614	699
17	D	681	645	661	696	708	706	703	705	710	708	705	710	723	751	760	742	725	724	725	717	649	646	566	577	693
18	D	630	705	690	650	677	692	696	705	707	723	723	718	724	725	716	722	728	715	720	689	706	696	668	634	698
19	D	664	682	691	702	703	702	703	704	704	699	701	708	718	723	726	735	730	727	723	705	714	707	704	700	707
20		682	692	702	704	705	707	709	712	710	707	703	704	708	713	713	714	713	714	711	711	710	708	705	700	707
21	Q	702	704	705	703	704	702	701	701	700	698	700	702	705	709	708	708	708	710	713	716	713	696	693	696	704
22	Q	701	702	702	702	701	701	699	695	692	690	691	693	697	701	704	704	703	703	702	702	702	701	700	698	699
23		697	692	689	694	697	697	698	698	694	688	685	686	691	699	703	703	703	705	711	708	706	686	676	676	695
24		677	682	688	695	698	699	700	697	694	692	695	697	700	703	705	705	707	709	708	706	709	708	706	704	699
25		697	691	699	700	699	697	694	694	692	691	691	692	697	699	700	700	701	702	705	705	701	699	698	693	697
26		671	687	693	694	695	694	696	697	697	694	694	697	699	697	702	703	703	702	703	704	701	699	698	699	697
27	Q	698	699	698	698	697	695	693	694	694	694	695	697	699	701	702	702	701	702	703	703	701	698	697	698	698
28	Q	697	695	695	697	697	697	697	693	689	685	688	693	699	702	704	704	703	702	701	702	701	699	697	696	697
29	Q	692	694	697	698	698	697	697	695	693	691	691	696	700	700	702	700	699	699	698	697	696	698	694	689	696
All		681	682	684	689	693	695	696	696	695	695	696	698	703	707	712	710	712	710	711	707	700	696	686	680	697
Quiet		698	699	700	700	699	698	697	696	694	692	693	696	700	702	704	704	703	703	703	704	703	698	696	695	699
Dist.		643	641	659	676	691	694	696	698	702	704	705	709	717	727	744	735	738	725	729	713	679	680	656	645	696

Nurmijarvi Finland

March 2016 North component X in nT (X = 14900 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		-99	-94	-84	-80	-76	-78	-79	-85	-86	-89	-94	-100	-100	-92	-89	-85	-87	-89	-89	-87	-85	-84	-87	-91	-88
2		-92	-91	-86	-85	-85	-83	-83	-90	-97	-102	-102	-106	-100	-93	-89	-103	-96	-93	-92	-87	-85	-84	-86	-87	-92
3		-87	-87	-87	-86	-87	-84	-87	-85	-98	-106	-109	-100	-96	-96	-99	-93	-91	-88	-88	-86	-87	-88	-84	-91	-91
4	Q	-86	-88	-90	-95	-92	-90	-92	-95	-96	-99	-102	-103	-100	-95	-94	-95	-94	-91	-88	-85	-85	-86	-85	-86	-92
5	Q	-85	-85	-85	-84	-82	-81	-81	-86	-100	-102	-105	-100	-109	-99	-93	-90	-88	-87	-88	-86	-85	-82	-82	-82	-89
6	D	-80	-81	-80	-79	-78	-77	-80	-82	-92	-94	-94	-91	-82	-78	-68	-62	-58	-6	-91	-74	-109	-420	-372	-205	-110
7	D	-228	-143	-128	-159	-134	-121	-121	-132	-136	-123	-118	-112	-93	-91	-101	-111	-99	-102	-107	-130	-122	-136	-108	-123	-124
8		-120	-109	-114	-113	-109	-109	-116	-123	-126	-126	-122	-113	-107	-103	-111	-111	-103	-103	-92	-97	-100	-97	-98	-101	-109
9		-105	-106	-102	-95	-96	-96	-102	-112	-126	-128	-122	-112	-107	-100	-95	-106	-102	-97	-95	-97	-113	-113	-114	-110	-106
10		-97	-103	-100	-96	-94	-93	-88	-103	-114	-123	-125	-122	-113	-104	-98	-94	-94	-91	-93	-97	-103	-95	-90	-88	-101
11		-94	-96	-97	-96	-90	-84	-85	-93	-107	-110	-99	-90	-94	-87	-101	-107	-90	-90	-86	-82	-108	-97	-92	-91	-94
12		-97	-95	-89	-93	-94	-96	-88	-88	-102	-114	-112	-112	-105	-97	-90	-91	-94	-107	-116	-114	-96	-95	-90	-93	-99
13	Q	-94	-93	-93	-91	-90	-89	-96	-100	-106	-112	-111	-106	-100	-94	-91	-91	-90	-88	-87	-87	-86	-86	-85	-86	-94
14		-90	-89	-89	-89	-86	-88	-90	-98	-108	-116	-113	-108	-102	-97	-92	-91	-87	-74	-56	-64	-91	-77	-103	-117	-92
15	D	-93	-112	-110	-110	-93	-104	-143	-142	-133	-130	-118	-118	-114	-102	-96	-91	-94	-102	-98	-116	-98	-116	-121	-121	-111
16	D	-147	-112	-92	-91	-96	-103	-115	-115	-112	-107	-115	-107	-97	-99	-99	-99	-96	-94	-92	-106	-125	-146	-147	-137	-110
17	D	-126	-135	-143	-105	-101	-115	-111	-104	-104	-121	-126	-115	-106	-101	-96	-99	-98	-82	-100	-100	-94	-96	-100	-101	-107
18		-101	-101	-104	-101	-98	-100	-114	-119	-114	-108	-103	-99	-96	-102	-106	-101	-102	-100	-99	-106	-110	-101	-99	-101	-104
19		-100	-100	-100	-97	-94	-109	-108	-135	-148	-146	-137	-128	-110	-102	-113	-111	-110	-109	-111	-104	-103	-101	-99	-100	-111
20		-102	-102	-102	-106	-97	-97	-107	-114	-122	-128	-126	-120	-110	-95	-88	-88	-102	-108	-115	-122	-120	-115	-112	-108	-109
21		-103	-93	-100	-99	-98	-97	-98	-108	-112	-122	-120	-113	-104	-95	-87	-86	-93	-89	-86	-86	-85	-87	-85	-89	-97
22		-91	-93	-90	-86	-81	-80	-84	-93	-107	-122	-119	-112	-111	-103	-93	-92	-90	-88	-88	-86	-85	-83	-84	-88	-94
23		-87	-83	-82	-81	-73	-86	-97	-93	-106	-117	-121	-116	-102	-98	-92	-87	-86	-82	-81	-86	-91	-93	-88	-78	-92
24		-85	-94	-94	-88	-83	-84	-89	-104	-109	-112	-109	-108	-102	-91	-88	-88	-87	-86	-85	-83	-83	-85	-87	-91	-92
25	Q	-92	-94	-96	-95	-90	-89	-92	-99	-108	-118	-117	-114	-109	-99	-94	-97	-89	-88	-88	-84	-84	-87	-88	-87	-96
26	Q	-87	-88	-87	-85	-82	-80	-81	-91	-101	-113	-119	-115	-105	-93	-87	-84	-84	-84	-80	-80	-78	-75	-72	-71	-88
27		-75	-78	-81	-78	-76	-77	-81	-79	-96	-123	-115	-103	-101	-97	-84	-97	-80	-108	-98	-85	-84	-85	-80	-82	-89
28		-89	-86	-89	-92	-87	-80	-85	-96	-109	-114	-111	-105	-95	-88	-81	-84	-85	-82	-79	-86	-86	-94	-92	-88	-91
29		-90	-108	-109	-86	-83	-87	-94	-102	-109	-116	-117	-120	-105	-93	-83	-83	-91	-101	-91	-88	-87	-89	-84	-89	-96
30		-89	-87	-96	-86	-84	-85	-88	-96	-111	-115	-114	-101	-107	-113	-98	-85	-95	-98	-94	-81	-90	-91	-89	-86	-95
31		-92	-100	-96	-100	-90	-88	-92	-104	-106	-114	-114	-110	-104	-99	-94	-92	-91	-90	-86	-86	-86	-89	-89	-96	
All		-100	-97	-97	-94	-90	-91	-96	-102	-110	-115	-114	-109	-103	-97	-93	-93	-92	-90	-91	-92	-95	-105	-103	-99	-99
Quiet		-89	-89	-90	-90	-87	-86	-88	-94	-102	-109	-111	-108	-105	-96	-92	-91	-89	-88	-86	-84	-83	-83	-82	-82	-92
Dist.		-135	-117	-111	-109	-100	-104	-114	-115	-115	-115	-114	-109	-98	-94	-92	-92	-89	-77	-97	-105	-109	-183	-170	-137	-113

March 2016 East component Y in nT (Y = 1400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		709	684	708	706	705	706	706	702	703	695	686	684	681	685	688	689	687	690	692	697	698	699	702	721	697
2		727	713	711	708	708	708	711	714	711	702	689	684	681	685	688	688	692	714	701	700	699	700	702	701	702
3		697	699	705	707	705	701	703	704	699	691	688	688	683	683	692	697	697	699	701	700	702	706	706	708	698
4	Q	694	705	711	713	710	710	715	716	712	704	695	686	681	682	690	698	699	697	700	700	701	702	702	702	701
5	Q	702	702	702	702	704	707	712	714	704	695	687	678	679	681	688	693	695	695	697	699	702	703	702	702	698
6	D	702	703	703	704	705	705	707	707	707	699	689	680	670	668	661	646	643	640	707	724	775	783	776	743	702
7	D	756	722	729	719	741	733	728	718	703	693	686	693	690	703	697	702	728	722	714	754	790	744	749	735	723
8		742	722	719	723	726	724	721	719	709	699	688	683	681	689	687	702	708	708	724	713	710	704	707	708	709
9		707	706	704	710	710	715	721	721	720	704	690	680	678	679	690	684	698	703	704	707	731	724	716	714	705
10		709	714	714	718	720	715	715	715	712	706	693	683	674	675	681	693	691	693	701	707	713	716	702	708	703
11		713	717	720	715	719	717	718	721	718	708	693	681	672	662	674	686	687	692	694	701	738	744	712	707	705
12		689	688	708	710	708	708	713	718	719	713	699	689	684	687	693	699	711	750	736	718	707	705	707	704	707
13	Q	704	706	706	706	707	709	717	718	715	707	696	688	688	689	693	696	696	696	699	700	702	703	703	707	702
14		706	700	712	709	707	708	712	711	706	694	684	681	678	685	688	691	693	688	675	678	699	751	741	746	702
15	D	725	687	711	704	726	715	695	672	694	694	690	684	684	693	698	700	699	708	700	730	772	739	739	777	710
16	D	724	755	728	718	720	720	714	704	708	696	678	672	683	694	688	697	699	695	710	716	740	772	746	756	714
17	D	716	715	664	690	718	726	716	711	706	696	687	688	690	700	709	709	713	745	718	702	697	703	709	709	706
18		709	709	706	709	715	724	728	716	707	697	691	682	679	668	675	691	703	703	702	721	718	715	708	724	704
19		723	724	718	717	723	720	719	723	707	700	690	688	686	680	697	698	713	764	716	715	720	722	710	706	712
20		708	709	711	701	715	724	728	730	724	708	691	680	681	684	689	694	699	713	758	732	722	731	731	718	712
21		715	710	710	707	709	716	724	725	721	710	695	679	673	674	682	692	693	701	716	713	709	708	711	706	704
22		702	700	697	700	711	718	724	726	721	710	695	680	682	687	695	700	703	705	705	706	705	709	711	708	704
23		706	705	706	703	707	715	701	704	715	711	698	690	685	690	695	699	700	700	702	711	724	723	707	698	704
24		717	712	711	708	714	720	726	729	723	709	693	684	680	679	684	693	698	697	700	702	706	706	703	708	704
25	Q	697	704	718	718	716	717	723	727	726	715	697	685	680	682	693	706	703	703	704	707	708	705	705	705	706
26	Q	706	706	707	707	707	713	722	725	725	712	694	683	680	682	688	692	695	694	694	697	699	700	706	707	702
27		706	701	695	711	712	715	719	720	711	705	690	678	672	674	684	689	693	722	710	701	698	703	714	719	702
28		710	710	711	704	682	700	713	719	714	701	691	682	679	682	687	694	696	697	701	727	724	716	699	702	702
29		701	700	703	716	718	719	712	723	711	698	684	683	675	683	690	700	710	733	704	702	712	712	707	701	704
30		696	681	694	714	719	724	728	730	723	708	695	680	672	680	693	701	709	710	710	722	712	707	706	705	
31		715	710	716	705	710	716	716	714	710	701	690	686	685	689	698	701	705	712	705	705	704	704	706	704	704
All		711	707	708	709	713	715	716	716	712	703	691	683	680	683	689	694	698	706	707	710	718	718	714	715	705
Quiet		700	705	709	709	709	711	718	720	716	707	694	684	682	683	690	697	697	697	699	701	702	703	703	704	702
Dist.		724	716	707	707	722	720	712	702	704	696	686	684	683	692	691	691	696	702	710	725	755	748	744	744	711

March 2016 Vertical component Z in nT (Z = 49400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		690	684	692	696	695	697	697	696	693	691	692	697	696	697	700	701	705	707	705	704	701	700	695	675	696
2		678	694	698	698	698	697	697	695	693	693	693	695	695	699	703	709	707	711	704	703	701	699	698	698	698
3		695	690	692	694	696	696	698	694	692	691	694	696	698	706	711	707	703	701	702	701	700	700	697	695	698
4	Q	683	673	677	690	695	697	697	694	690	687	687	686	692	696	701	703	702	702	701	700	699	698	698	698	694
5	Q	698	698	697	697	697	698	698	695	691	690	692	699	704	704	706	702	701	701	702	702	700	698	698	697	699
6	D	697	696	696	695	695	693	693	689	688	684	685	688	694	696	697	703	757	897	809	812	683	582	460	614	696
7	D	637	689	715	684	668	702	714	709	713	717	720	724	732	736	728	741	754	719	738	725	708	687	645	655	707
8		666	677	695	709	712	710	709	710	708	705	707	713	718	724	733	732	726	721	717	701	705	705	704	705	709
9		705	705	703	702	704	708	709	707	705	701	703	708	711	719	730	727	716	711	709	711	714	709	702	692	709
10		688	702	705	704	705	705	702	700	702	701	702	706	707	711	716	716	714	717	725	724	717	701	675	670	705
11		676	690	696	702	703	703	700	696	694	693	689	691	693	716	750	721	710	708	708	703	698	701	703	702	702
12		691	686	696	700	702	704	705	704	702	699	698	700	702	703	706	709	715	726	723	723	714	705	700	702	705
13	Q	704	705	705	705	705	705	705	704	697	694	693	696	699	702	704	704	704	704	705	705	705	704	704	701	702
14		702	700	698	701	702	702	701	698	693	690	692	696	700	703	706	704	704	703	699	699	715	695	654	662	697
15	D	674	667	672	654	669	676	682	684	693	703	708	707	710	714	714	712	715	723	733	723	638	643	663	641	688
16	D	569	622	683	699	701	702	702	697	699	701	705	713	736	738	723	715	711	709	714	719	697	637	571	613	686
17	D	635	652	611	625	666	676	703	703	703	708	723	729	725	719	719	716	724	719	711	716	695	671	698	708	694
18		708	707	704	708	710	709	705	705	701	698	699	706	721	727	726	722	731	725	726	731	724	714	682	665	711
19		684	698	706	708	707	706	701	703	707	717	725	713	711	721	737	729	735	733	723	726	723	715	713	712	715
20		711	709	707	704	708	710	710	710	707	704	704	707	708	713	716	730	754	770	699	718	721	726	720	717	716
21		713	708	712	714	714	714	711	710	706	699	699	703	707	712	714	715	715	715	712	710	709	707	697	692	709
22		702	703	703	702	705	708	707	706	704	698	695	697	699	705	709	708	707	707	707	707	706	701	698	703	704
23		705	704	704	703	701	701	703	697	697	695	694	697	701	704	705	705	705	705	706	709	708	705	702	682	702
24		675	683	697	703	704	704	701	698	697	693	690	693	696	701	707	706	707	706	707	706	706	705	704	700	700
25	Q	687	665	675	693	699	703	704	704	703	701	699	699	699	703	710	710	707	706	706	704	700	701	703	703	699
26	Q	703	703	703	704	704	706	707	706	701	695	689	686	690	700	703	704	703	702	703	703	703	703	703	701	701
27		700	698	690	693	698	700	703	700	696	695	690	695	700	704	713	711	720	743	727	716	709	707	697	695	704
28		702	704	704	700	688	691	698	700	699	694	692	696	699	704	705	705	703	703	705	710	695	700	697	698	700
29		699	677	673	686	693	700	697	698	693	692	696	707	714	711	710	710	716	719	708	706	704	701	692	692	700
30		688	675	673	689	696	697	699	700	699	697	696	704	716	715	714	724	727	722	718	692	688	699	703	697	701
31		687	692	699	701	705	706	705	706	706	700	696	697	704	709	710	709	708	708	706	706	705	704	703	704	703
All		686	689	693	696	698	701	702	701	699	698	698	701	706	710	714	713	716	721	715	713	703	694	683	687	701
Quiet		695	689	692	698	700	702	702	701	696	693	692	693	697	701	705	705	703	703	703	703	701	701	701	700	699
Dist.		642	665	675	671	680	690	699	696	699	702	708	712	719	720	716	717	732	753	741	739	684	644	607	646	694

Nurmijarvi Finland

April 2016 North component X in nT (X = 14900 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1	Q	-89	-91	-91	-89	-88	-89	-95	-101	-106	-112	-110	-104	-98	-94	-89	-89	-85	-83	-81	-81	-80	-81	-78	-78	-91
2	D	-77	-81	-82	-84	-84	-86	-92	-101	-109	-113	-109	-100	-86	-79	-68	-84	-47	-88	-103	-111	-140	-147	-125	-195	-100
3		-148	-134	-107	-104	-106	-116	-117	-121	-112	-114	-127	-116	-106	-97	-89	-90	-91	-95	-98	-96	-103	-97	-109	-104	-108
4		-103	-96	-100	-103	-88	-86	-94	-101	-109	-115	-111	-100	-96	-87	-94	-89	-90	-88	-84	-85	-91	-91	-97	-96	-96
5		-97	-96	-97	-96	-93	-94	-99	-107	-113	-115	-117	-106	-91	-96	-92	-87	-89	-88	-89	-88	-91	-95	-91	-96	-97
6		-97	-100	-94	-88	-83	-81	-91	-109	-119	-132	-128	-109	-92	-87	-84	-81	-93	-89	-91	-90	-93	-94	-98	-95	-97
7		-94	-92	-91	-87	-85	-87	-91	-103	-115	-115	-106	-97	-91	-84	-81	-77	-74	-61	-73	-86	-156	-185	-183	-204	-105
8		-98	-112	-93	-90	-88	-89	-98	-107	-114	-123	-118	-116	-107	-98	-94	-91	-91	-91	-88	-84	-87	-89	-90	-93	-98
9	Q	-93	-92	-92	-91	-88	-86	-91	-104	-118	-132	-134	-125	-109	-101	-94	-86	-87	-87	-85	-84	-83	-83	-84	-84	-96
10		-88	-87	-86	-89	-87	-86	-92	-105	-126	-121	-114	-105	-98	-96	-90	-85	-83	-82	-80	-79	-79	-80	-87	-83	-92
11		-88	-86	-85	-85	-85	-90	-98	-107	-116	-121	-121	-115	-104	-91	-91	-82	-89	-79	-80	-76	-75	-72	-74	-79	-91
12	D	-85	-91	-98	-92	-85	-88	-88	-96	-110	-122	-126	-107	-89	-90	-70	-83	-84	-83	-85	-101	-95	-114	-110	-130	-97
13	D	-120	-120	-122	-106	-113	-126	-133	-131	-132	-134	-125	-128	-104	-85	-74	-86	-111	-98	-85	-107	-103	-95	-105	-113	-111
14	D	-120	-113	-119	-116	-105	-98	-107	-114	-121	-122	-133	-129	-87	-70	-80	-85	-68	-94	-104	-117	-145	-111	-99	-110	-107
15		-104	-110	-123	-107	-105	-110	-114	-120	-126	-124	-118	-115	-110	-98	-95	-94	-89	-84	-79	-77	-80	-75	-75	-83	-101
16		-87	-90	-90	-91	-91	-94	-102	-115	-129	-123	-112	-105	-93	-79	-81	-82	-83	-74	-85	-109	-137	-140	-121	-105	-101
17	D	-108	-104	-84	-89	-104	-132	-129	-123	-132	-134	-132	-130	-113	-104	-87	-86	-88	-87	-77	-69	-86	-84	-83	-85	-102
18		-86	-89	-91	-91	-91	-94	-103	-111	-117	-125	-124	-117	-113	-104	-99	-96	-95	-91	-86	-88	-89	-91	-92	-90	-99
19	Q	-88	-87	-88	-89	-90	-94	-101	-111	-120	-124	-120	-107	-90	-93	-87	-88	-87	-87	-87	-86	-85	-85	-84	-82	-94
20	Q	-82	-80	-79	-80	-79	-81	-88	-100	-112	-121	-113	-103	-96	-90	-91	-94	-90	-89	-85	-82	-83	-81	-83	-88	-90
21		-86	-84	-83	-83	-81	-84	-90	-103	-111	-114	-113	-99	-91	-87	-87	-80	-79	-79	-82	-77	-77	-77	-76	-79	-88
22		-82	-86	-83	-84	-89	-95	-103	-107	-111	-112	-114	-99	-90	-72	-99	-71	-103	-83	-83	-81	-76	-73	-95	-90	-91
23		-90	-88	-89	-89	-89	-87	-91	-101	-113	-120	-118	-111	-87	-93	-100	-84	-82	-80	-70	-77	-77	-65	-85	-89	-91
24		-86	-88	-86	-85	-87	-91	-98	-107	-114	-119	-117	-106	-101	-83	-100	-72	-77	-92	-81	-85	-84	-86	-85	-84	-92
25		-84	-83	-83	-86	-88	-93	-99	-103	-117	-121	-123	-114	-101	-86	-90	-90	-85	-86	-83	-79	-81	-82	-85	-87	-93
26		-88	-87	-88	-88	-86	-91	-95	-101	-107	-110	-119	-110	-104	-90	-86	-83	-82	-87	-84	-78	-87	-83	-87	-84	-92
27		-82	-82	-82	-85	-91	-91	-93	-95	-112	-116	-115	-110	-109	-102	-68	-78	-86	-81	-74	-82	-82	-97	-101	-94	-92
28		-90	-90	-95	-89	-87	-86	-90	-97	-103	-118	-124	-115	-98	-90	-88	-89	-86	-83	-83	-81	-84	-84	-83	-87	-92
29	Q	-85	-87	-88	-86	-87	-89	-95	-102	-109	-116	-116	-111	-101	-98	-88	-83	-79	-77	-74	-72	-76	-75	-74	-74	-89
30		-78	-79	-76	-73	-75	-81	-86	-92	-106	-120	-121	-103	-94	-83	-73	-79	-71	-71	-78	-81	-87	-93	-99	-95	-87
All		-93	-93	-92	-90	-90	-93	-99	-107	-115	-120	-119	-110	-98	-90	-87	-85	-85	-85	-84	-86	-93	-93	-94	-99	-96
Quiet		-87	-87	-87	-87	-86	-88	-94	-103	-113	-121	-119	-110	-99	-95	-89	-88	-86	-84	-82	-81	-81	-81	-81	-81	-92
Dist.		-102	-102	-101	-97	-98	-106	-110	-113	-121	-125	-125	-119	-96	-85	-76	-85	-79	-90	-91	-101	-114	-110	-104	-127	-103

April 2016 East component Y in nT (Y = 1400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1	Q	703	705	707	711	714	718	721	721	714	705	692	686	684	690	696	698	700	700	699	701	714	704	701	704	704
2	D	704	703	711	713	714	719	723	721	715	706	696	686	678	673	673	685	704	740	714	716	790	767	759	776	716
3		725	729	722	714	725	726	712	709	712	694	687	682	682	686	691	700	708	705	710	713	721	734	721	720	709
4		713	726	731	714	716	727	731	729	725	714	705	689	687	685	691	698	700	703	705	704	706	715	711	710	710
5		710	714	717	717	721	722	722	719	713	701	691	681	670	679	682	690	696	705	717	731	737	716	715	709	707
6		710	709	702	716	722	728	730	726	716	704	693	679	668	676	688	710	706	713	713	713	717	718	712	709	707
7		707	695	703	709	719	726	728	722	710	697	680	672	671	677	685	690	693	691	691	710	772	772	745	743	709
8		750	756	721	729	729	729	736	733	723	709	696	685	683	687	695	701	704	706	706	707	709	710	710	711	713
9	Q	711	713	714	718	723	730	735	735	728	714	696	683	679	684	693	702	710	709	707	705	704	703	704	706	709
10		706	709	713	716	718	722	724	724	712	701	690	676	672	678	690	702	705	703	703	702	703	702	710	710	704
11		713	713	714	718	722	727	729	726	718	704	694	683	677	682	689	695	726	711	699	695	700	710	702	704	706
12	D	708	712	716	717	731	731	730	727	719	706	691	675	663	653	653	675	688	688	711	733	711	717	775	737	707
13	D	722	767	735	735	736	735	730	711	708	700	685	674	687	679	727	712	705	721	711	738	723	715	717	708	716
14	D	716	715	717	718	717	730	733	730	721	709	694	680	675	685	672	675	754	715	718	719	736	730	723	713	712
15		713	719	700	720	726	728	727	721	716	706	695	684	682	681	683	687	693	697	699	698	701	706	705	710	704
16		711	714	717	720	720	722	729	727	708	692	685	675	671	666	670	677	692	744	720	751	756	751	737	709	711
17	D	679	706	731	734	731	713	690	687	692	685	677	662	655	658	670	698	691	693	703	740	724	726	719	711	699
18		714	717	720	723	725	725	723	724	720	708	699	688	687	692	697	705	708	710	707	708	710	708	709	707	710
19	Q	707	707	709	714	716	721	725	723	720	711	698	689	685	693	702	705	707	707	707	706	707	706	706	705	707
20	Q	705	705	709	710	717	724	723	717	712	699	685	674	681	691	701	706	708	710	710	709	709	711	713	705	706
21		704	706	707	712	721	729	730	728	719	703	690	675	674	682	692	697	703	706	714	707	704	705	707	709	705
22		712	713	709	718	723	726	728	724	714	700	690	677	675	679	691	698	699	704	704	706	712	748	718	713	708
23		709	710	712	715	730	734	735	731	721	703	684	672	663	672	683	693	698	697	701	708	718	737	724	728	707
24		711	711	714	720	722	723	725	724	714	700	687	677	673	681	690	701	726	711	704	727	730	707	706	708	708
25		707	711	713	719	720	720	719	723	716	710	697	684	678	679	689	697	703	709	712	711	706	704	707	707	706
26		708	710	714	717	722	724	727	726	720	706	701	690	685	689	698	707	704	704	702	704	724	732	714	711	710
27		711	713	718	717	714	711	713	715	712	707	702	690	683	688	690	713	704	699	700	708	728	723	716	707	708
28		706	711	711	721	727	729	728	726	720	711	699	689	684	688	692	698	705	706	707	709	708	709	710	710	709
29	Q	709	714	719	725	729	734	733	731	724	713	703	694	687	686	687	690	696	701	703	703	706	706	707	708	709
30		715	716	720	724	729	733	734	731	723	709	697	685	679	681	687	698	697	698	701	706	715	728	720	713	710
All		710	715	715	718	723	725	726	723	716	704	693	681	677	681	688	697	704	707	707	713	720	721	717	714	708
Quiet		707	709	712	715	720	725	728	725	720	708	695	685	683	689	696	700	704	705	705	705	708	706	706	705	707
Dist.		706	720	722	723	726	726	721	715	711	701	689	675	671	670	679	689	708	711	711	729	737	731	739	729	710

April 2016 Vertical component Z in nT (Z = 49400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1	Q	699	702	702	703	704	704	702	700	695	687	684	688	694	699	703	702	701	702	702	703	702	701	701	702	699
2	D	700	698	699	701	703	704	702	698	693	689	687	690	695	696	700	700	737	788	760	732	719	666	566	555	695
3		583	634	689	705	710	706	703	702	705	706	706	710	709	711	716	723	728	730	732	728	712	659	674	699	699
4		699	698	700	702	704	707	706	705	702	701	699	700	701	714	714	715	711	708	707	707	708	708	703	705	705
5		705	705	706	707	707	708	709	709	709	706	706	703	707	710	712	714	716	718	719	714	689	698	694	697	707
6		705	705	700	701	706	710	709	708	705	705	703	703	709	711	720	727	722	719	717	715	712	703	699	698	709
7		703	697	700	704	706	708	704	698	695	691	689	689	693	698	701	702	701	704	714	726	689	531	527	508	678
8		563	643	689	701	707	704	706	707	707	705	705	704	706	708	709	709	708	707	707	708	708	708	707	707	697
9	Q	707	707	708	709	708	707	707	706	703	698	696	695	701	706	708	710	711	708	707	707	705	704	704	703	705
10		703	703	705	706	706	706	705	704	703	698	694	692	693	697	703	706	705	703	704	704	703	702	697	698	702
11		702	705	705	706	706	707	707	703	697	689	687	689	700	708	712	718	731	720	715	710	707	702	696	694	705
12	D	702	705	705	705	706	706	704	703	701	700	701	701	711	724	735	758	752	750	755	741	724	696	645	618	710
13	D	574	553	626	681	686	700	706	715	720	721	726	734	752	748	797	779	758	739	719	710	671	679	688	667	702
14	D	657	660	687	694	696	702	706	705	702	702	711	738	782	799	779	792	764	733	739	716	671	616	683	689	714
15		682	671	686	703	713	715	714	712	707	702	701	701	707	712	710	710	711	711	711	711	709	710	702	703	705
16		706	709	710	710	709	709	710	710	707	702	701	706	704	714	716	725	737	736	725	713	689	642	683	695	707
17	D	670	689	706	706	701	694	693	696	698	698	703	706	717	722	727	752	755	750	744	723	724	729	718	713	714
18		713	713	715	716	715	711	707	705	703	701	697	697	702	707	711	714	714	713	711	711	711	710	710	710	709
19	Q	710	710	711	711	713	714	712	710	706	704	702	700	705	706	710	709	708	707	708	708	708	707	707	707	708
20	Q	707	708	710	710	708	708	705	704	707	704	694	696	701	704	704	706	708	709	709	709	709	707	704	705	706
21		707	708	710	711	709	709	708	707	701	696	696	696	702	704	706	708	708	710	712	709	707	706	706	706	706
22		706	705	708	708	708	707	704	700	696	693	688	689	695	710	717	729	728	717	710	709	705	664	685	700	703
23		705	708	707	703	704	704	703	701	698	695	694	695	704	709	705	707	706	706	709	714	710	643	635	682	698
24		695	704	707	707	706	707	707	705	703	699	697	698	700	709	710	728	751	725	715	716	707	708	707	707	709
25		707	708	709	709	707	706	702	697	697	700	700	700	702	708	712	713	717	717	713	708	707	707	707	707	707
26		708	709	710	710	711	710	709	705	703	700	697	700	704	711	717	716	714	712	709	708	704	692	700	706	707
27		707	707	708	708	706	702	702	701	701	704	702	702	707	708	721	735	723	712	710	712	708	700	699	702	708
28		705	707	707	708	706	705	705	703	703	701	696	695	701	706	708	708	709	708	708	708	707	707	707	707	705
29	Q	706	708	709	709	706	706	705	701	697	693	692	692	697	698	699	700	703	705	705	705	705	705	704	702	702
30		702	706	708	708	707	702	697	693	688	687	687	690	696	703	716	721	719	720	722	718	715	705	692	663	703
All		688	693	701	705	706	706	705	704	702	699	698	700	707	712	717	721	722	720	717	713	705	687	685	685	704
Quiet		706	707	708	708	708	708	706	704	701	697	694	694	700	703	705	705	706	706	706	706	705	704	704	704	704
Dist.		661	661	685	697	698	701	702	703	703	702	706	714	731	738	747	756	753	752	743	725	702	677	660	649	707

Nurmijarvi Finland

May 2016 North component X in nT (X = 14900 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1	D	-88	-86	-87	-86	-91	-103	-107	-112	-112	-116	-113	-104	-89	-85	-59	-61	-88	-79	-85	-125	-134	-118	-114	-118	-98
2	D	-167	-109	-118	-149	-107	-111	-123	-128	-132	-130	-135	-125	-105	-91	-87	-69	-61	-81	-92	-129	-128	-159	-170	-136	-118
3		-122	-102	-124	-129	-130	-117	-123	-127	-124	-129	-123	-115	-108	-107	-97	-78	-82	-70	-81	-90	-93	-86	-96	-98	-106
4	Q	-95	-96	-98	-98	-103	-112	-121	-127	-130	-126	-121	-116	-105	-91	-90	-101	-93	-86	-86	-90	-90	-86	-91	-92	-102
5		-91	-89	-90	-92	-92	-95	-98	-104	-107	-127	-126	-128	-105	-97	-104	-103	-81	-83	-84	-84	-87	-89	-90	-79	-97
6		-99	-97	-92	-93	-91	-92	-98	-106	-110	-116	-105	-109	-75	-72	-115	-86	-86	-64	-75	-95	-94	-94	-93	-85	-93
7		-95	-103	-98	-97	-96	-100	-107	-119	-129	-136	-133	-125	-117	-107	-102	-89	-86	-88	-86	-78	-80	-87	-81	-81	-101
8	D	-80	-88	-114	-90	-147	-203	-237	-203	-169	-124	-117	-146	-79	15	-32	38	17	-53	-111	-156	-242	-264	-216	-226	-126
9	D	-209	-223	-105	-120	-114	-119	-116	-121	-141	-165	-135	-112	-104	-65	-88	-81	-73	-82	-80	-77	-127	-160	-127	-120	-119
10		-119	-107	-124	-129	-127	-141	-138	-134	-136	-129	-124	-123	-94	-87	-67	-89	-103	-100	-101	-99	-87	-104	-111	-109	-112
11		-114	-117	-112	-108	-108	-110	-113	-115	-120	-123	-118	-112	-107	-107	-106	-100	-86	-86	-84	-92	-94	-94	-96	-99	-105
12	Q	-102	-100	-100	-100	-102	-102	-106	-110	-119	-119	-110	-105	-106	-105	-110	-101	-92	-88	-83	-86	-87	-92	-95	-89	-100
13		-92	-93	-92	-93	-96	-101	-109	-118	-122	-121	-119	-100	-100	-93	-91	-88	-88	-75	-78	-81	-86	-90	-93	-93	-96
14		-100	-91	-93	-102	-113	-112	-111	-112	-117	-122	-125	-113	-107	-92	-106	-90	-83	-76	-71	-67	-76	-73	-89	-111	-98
15		-89	-89	-78	-87	-88	-90	-97	-105	-106	-111	-110	-118	-92	-78	-68	-109	-79	-79	-67	-81	-84	-83	-84	-83	-90
16		-85	-93	-92	-97	-87	-88	-102	-120	-118	-120	-135	-140	-104	-101	-85	-82	-75	-82	-95	-93	-89	-82	-81	-84	-97
17		-87	-85	-87	-90	-94	-102	-107	-123	-129	-112	-126	-112	-93	-105	-86	-80	-80	-69	-80	-82	-92	-93	-90	-107	-96
18		-93	-89	-89	-107	-109	-100	-102	-106	-121	-119	-107	-112	-102	-96	-94	-83	-79	-82	-80	-83	-84	-82	-81	-83	-95
19		-86	-83	-83	-86	-91	-95	-102	-115	-133	-135	-120	-108	-96	-117	-89	-86	-77	-77	-77	-85	-86	-86	-83	-82	-95
20		-79	-85	-82	-82	-81	-88	-104	-108	-113	-120	-123	-111	-98	-84	-84	-85	-80	-77	-77	-73	-71	-73	-71	-67	-88
21	D	-67	-68	-69	-80	-87	-90	-123	-155	-153	-125	-102	-107	-79	-104	-57	-93	-95	-79	-78	-88	-91	-91	-92	-90	-94
22		-87	-85	-85	-92	-99	-95	-105	-112	-133	-130	-111	-97	-93	-94	-80	-86	-92	-88	-83	-87	-87	-90	-89	-90	-95
23	Q	-88	-85	-83	-86	-89	-96	-104	-112	-122	-132	-123	-114	-103	-100	-95	-88	-85	-83	-84	-86	-88	-87	-91	-91	-96
24		-94	-90	-84	-89	-86	-94	-101	-105	-113	-111	-110	-125	-107	-95	-93	-88	-84	-83	-81	-80	-80	-83	-83	-85	-93
25	Q	-84	-82	-82	-88	-94	-101	-104	-111	-120	-119	-115	-107	-97	-88	-86	-87	-85	-84	-82	-83	-82	-83	-83	-83	-93
26	Q	-82	-81	-80	-83	-87	-88	-96	-107	-115	-121	-124	-111	-98	-88	-81	-81	-74	-76	-67	-60	-64	-66	-68	-68	-86
27		-73	-77	-91	-91	-95	-85	-91	-99	-111	-117	-119	-121	-107	-90	-82	-86	-71	-74	-63	-71	-80	-76	-82	-70	-88
28		-86	-81	-85	-90	-100	-104	-110	-124	-112	-108	-90	-110	-94	-98	-101	-88	-83	-76	-78	-80	-78	-91	-93	-98	-94
29		-95	-92	-100	-102	-93	-91	-91	-95	-107	-118	-115	-111	-102	-105	-92	-87	-83	-72	-65	-76	-79	-99	-110	-110	-95
30		-107	-87	-111	-110	-112	-113	-121	-128	-119	-116	-111	-112	-107	-100	-87	-75	-78	-79	-72	-75	-76	-84	-87	-89	-98
31		-89	-87	-90	-94	-101	-103	-109	-114	-126	-115	-109	-97	-93	-86	-76	-82	-92	-70	-57	-71	-80	-95	-106	-96	-93
All		-98	-95	-94	-98	-100	-105	-112	-119	-123	-123	-118	-114	-99	-91	-87	-83	-80	-79	-80	-87	-93	-98	-98	-97	-99
Quiet		-90	-89	-89	-91	-95	-100	-106	-113	-121	-123	-119	-111	-102	-94	-92	-92	-86	-83	-80	-81	-82	-83	-86	-85	-95
Dist.		-122	-115	-99	-105	-109	-125	-141	-144	-141	-132	-120	-119	-91	-66	-65	-53	-60	-75	-89	-115	-144	-158	-144	-138	-111

May 2016 East component Y in nT (Y = 1400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1	D	716	716	721	716	721	726	725	718	711	700	689	675	664	666	668	687	692	702	723	747	725	752	737	773	711
2	D	758	705	729	687	721	736	730	729	723	707	692	677	674	674	690	707	712	714	720	725	729	714	712	748	713
3		711	716	729	722	732	735	725	729	725	713	704	695	691	696	698	701	711	723	715	710	710	722	715	713	714
4	Q	719	722	724	727	726	726	725	724	714	705	694	687	687	691	696	701	706	713	709	706	707	709	710	710	710
5		714	716	718	720	720	719	716	715	708	697	678	675	680	682	693	698	702	719	711	705	707	708	708	720	705
6		738	729	731	733	734	734	734	729	714	703	681	669	654	671	663	675	700	695	715	747	722	711	707	718	709
7		702	719	726	735	739	739	737	728	717	702	688	676	674	686	693	708	726	719	710	710	712	712	726	709	712
8	D	720	695	680	677	699	708	663	739	718	701	692	665	658	669	688	666	699	722	743	745	756	761	725	784	707
9	D	848	739	709	738	737	742	739	732	724	703	695	693	685	714	698	711	720	717	719	731	763	737	734	715	727
10		718	725	731	718	712	725	708	714	714	703	694	691	692	701	696	702	703	706	709	710	728	728	721	712	711
11		710	707	716	727	737	742	738	732	722	712	701	693	693	698	701	708	710	713	714	718	718	718	725	713	715
12	Q	720	724	729	730	733	734	733	724	709	696	686	681	684	693	701	706	710	713	712	713	714	716	713	713	712
13		715	722	724	728	728	729	735	725	714	698	682	673	669	674	684	691	703	707	711	709	720	722	713	713	708
14		709	722	742	750	749	736	727	725	705	689	675	665	671	671	677	686	693	699	705	707	714	720	722	733	708
15		723	730	721	722	733	732	722	707	704	702	693	682	683	692	698	699	705	706	704	738	708	702	701	707	709
16		706	713	719	721	717	729	729	722	716	702	691	679	677	678	688	704	708	722	713	705	711	707	711	718	708
17		724	716	718	727	729	733	730	726	720	710	698	688	686	694	696	708	707	714	731	723	718	721	725	720	715
18		719	720	719	711	700	702	723	734	724	713	695	683	675	678	694	701	704	709	710	711	712	713	712	715	707
19		717	718	722	727	734	737	739	737	724	705	693	687	685	690	695	700	706	712	725	720	712	710	710	711	713
20		709	708	712	725	736	741	734	725	711	695	679	675	679	686	696	704	709	710	709	708	705	707	708	702	707
21	D	702	717	727	736	732	728	741	720	684	687	684	673	675	681	693	711	719	713	718	709	712	708	707	707	708
22		710	711	714	719	717	727	733	730	716	702	694	680	672	691	706	712	716	720	714	709	707	708	709	710	710
23	Q	712	715	721	728	736	739	739	734	723	710	699	693	693	695	702	710	715	716	715	715	713	714	715	710	715
24		705	713	724	727	738	740	741	736	723	710	698	691	691	692	696	702	708	712	711	710	711	710	711	711	713
25	Q	713	716	722	727	736	739	739	731	716	705	690	684	686	688	693	702	707	705	703	707	709	708	708	708	710
26	Q	708	713	723	732	737	743	743	738	727	711	698	688	680	683	692	701	706	707	704	700	698	707	704	707	710
27		713	717	718	725	734	730	732	735	729	715	693	677	667	670	679	686	691	693	698	716	709	706	714	719	707
28		740	749	744	739	736	731	735	740	718	711	698	685	675	673	686	690	698	707	714	705	705	711	702	703	712
29		714	720	727	732	732	737	741	740	732	715	706	698	694	696	698	702	709	708	705	706	723	741	736	751	719
30		724	750	749	731	729	733	741	736	729	722	710	703	700	696	692	696	702	710	703	706	712	713	714	708	717
31		711	723	728	731	726	729	736	741	728	712	698	683	683	684	686	693	701	698	717	705	708	737	755	736	715
All		721	719	723	725	729	732	730	729	717	705	693	683	680	685	691	699	706	710	713	715	716	718	716	720	711
Quiet		714	718	724	729	734	736	736	730	718	705	693	687	686	690	697	704	709	711	708	708	708	711	710	710	711
Dist.		749	715	713	711	722	728	720	728	712	700	690	677	671	681	687	696	708	714	725	731	737	734	723	745	713

May 2016 Vertical component Z in nT (Z = 49400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1	D	680	697	702	706	704	705	706	704	698	691	694	697	702	712	734	749	746	736	732	707	663	643	656	626	700
2	D	585	628	634	629	665	686	688	692	694	697	699	699	704	720	743	763	776	768	740	658	647	600	586	642	681
3		645	679	682	686	695	705	706	708	706	704	707	709	712	712	711	718	722	724	713	711	709	701	693	701	703
4	Q	708	711	710	710	708	708	708	708	703	698	696	695	699	705	713	715	713	713	715	712	710	709	706	705	707	707
5		709	710	708	704	703	705	707	708	701	697	702	696	702	717	721	715	717	725	718	712	710	708	707	696	708
6		686	693	696	701	705	709	709	705	699	699	699	699	723	742	736	750	767	757	753	713	716	716	704	688	715
7		640	673	704	714	718	716	712	707	706	704	699	699	708	713	710	720	732	726	717	715	713	704	697	690	706
8	D	693	679	569	544	583	623	590	642	678	710	721	751	795	835	788	850	867	815	747	703	645	534	537	471	682
9	D	465	508	634	664	698	722	723	718	717	718	725	735	732	769	739	744	750	746	726	680	663	626	637	615	686
10		675	693	697	699	697	706	709	715	717	710	713	720	746	756	768	753	731	722	720	718	718	707	700	695	716
11		681	685	701	716	719	721	715	711	708	707	704	704	708	714	715	717	720	721	724	722	717	705	702	691	710
12	Q	700	713	715	717	718	717	714	712	707	702	700	705	712	716	716	718	718	716	716	716	713	709	710	706	712
13		699	707	711	713	713	711	708	703	702	699	694	702	709	719	728	734	735	731	727	722	713	706	713	711	713
14		700	676	680	689	698	700	703	705	701	696	690	706	717	720	719	718	714	713	714	715	689	666	645	655	697
15		665	675	682	700	704	705	706	708	700	698	698	702	714	734	761	753	742	734	727	728	717	716	714	714	712
16		712	706	700	702	700	705	705	707	707	700	703	712	728	743	761	764	767	763	741	726	717	716	711	701	721
17		701	711	716	716	717	719	715	710	707	703	703	704	718	722	727	729	728	731	731	720	712	697	686	691	713
18		704	713	707	702	695	694	697	700	702	705	704	705	712	715	720	720	718	717	716	713	713	713	711	708	709
19		710	712	713	713	712	710	709	704	705	706	704	706	716	715	719	721	719	718	724	721	716	715	714	713	713
20		710	707	703	705	704	706	705	704	700	692	689	693	702	711	712	713	711	710	711	711	710	708	708	704	705
21	D	688	699	704	704	701	696	698	700	694	691	694	702	714	717	735	751	741	725	725	717	715	714	714	714	711
22		713	713	716	712	707	715	719	714	711	708	713	722	732	728	726	722	722	724	720	716	714	713	713	713	717
23	Q	714	716	717	716	716	715	713	712	709	706	703	703	704	708	713	715	714	715	713	713	712	711	712	711	712
24		708	709	713	713	710	710	707	703	701	702	705	709	709	712	711	713	716	717	714	712	712	711	711	711	710
25	Q	712	713	714	714	711	710	710	704	696	691	690	697	706	712	718	717	716	715	713	713	712	711	711	711	709
26	Q	713	714	715	713	712	711	710	707	699	692	692	698	704	708	711	712	713	712	711	711	710	709	709	710	708
27		710	707	699	685	683	692	700	702	699	695	692	696	710	722	730	729	728	729	724	704	712	710	705	682	706
28		671	682	697	703	706	705	705	703	701	704	701	702	708	713	714	716	718	727	727	720	715	705	690	678	705
29		687	699	709	708	712	713	716	713	709	711	711	712	714	714	718	715	720	722	722	719	714	699	682	685	709
30		668	650	659	689	699	704	705	709	705	701	703	706	706	706	709	718	729	728	719	715	712	707	706	702	702
31		704	709	711	710	710	712	710	707	705	701	697	701	702	704	712	727	732	730	726	700	708	695	683	693	708
All		682	690	694	697	701	705	704	704	703	701	701	706	715	724	727	732	734	730	723	712	705	693	689	685	707
Quiet		709	713	714	714	713	712	711	707	702	697	696	700	706	712	715	715	715	715	713	712	711	709	709	709	710
Dist.		622	642	649	649	670	686	681	691	696	701	706	717	729	751	748	771	776	758	734	693	667	623	626	614	692

Nurmijarvi Finland

June 2016 North component X in nT (X = 14900 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		-99	-97	-102	-99	-95	-97	-107	-117	-119	-117	-120	-108	-102	-97	-83	-75	-79	-83	-84	-82	-82	-89	-88	-90	-96
2	Q	-90	-88	-89	-89	-99	-101	-105	-109	-115	-116	-110	-106	-101	-98	-97	-92	-88	-80	-78	-80	-84	-88	-90	-89	-95
3	Q	-87	-93	-92	-90	-90	-93	-101	-109	-112	-108	-110	-104	-104	-101	-95	-93	-91	-82	-78	-78	-78	-81	-85	-86	-93
4	Q	-88	-86	-83	-82	-82	-87	-100	-110	-115	-114	-111	-103	-94	-86	-82	-82	-79	-73	-68	-73	-79	-77	-77	-71	-88
5	D	-71	-69	-69	-76	-78	-83	-87	-94	-108	-107	-131	-98	-80	-57	-16	-59	-61	-66	-59	-79	-137	-104	-96	-107	-83
6	D	-159	-131	-112	-93	-132	-165	-125	-145	-135	-137	-120	-140	-105	-94	-77	-74	-69	-74	-75	-82	-87	-87	-88	-86	-108
7		-87	-90	-87	-90	-93	-96	-103	-112	-117	-127	-124	-122	-103	-82	-100	-85	-81	-86	-74	-83	-80	-96	-97	-109	-97
8		-105	-91	-102	-115	-106	-105	-109	-118	-125	-121	-114	-116	-100	-101	-101	-98	-92	-92	-90	-85	-86	-87	-89	-90	-102
9		-91	-98	-97	-97	-97	-95	-94	-100	-113	-123	-127	-120	-111	-107	-94	-81	-79	-75	-77	-78	-84	-87	-87	-86	-96
10		-86	-87	-86	-89	-90	-90	-96	-104	-114	-121	-116	-108	-98	-103	-77	-86	-76	-67	-63	-58	-65	-78	-72	-74	-88
11		-79	-90	-86	-88	-87	-88	-90	-97	-109	-120	-129	-129	-109	-89	-69	-76	-72	-75	-66	-75	-70	-70	-81	-86	-89
12		-81	-83	-86	-85	-85	-92	-104	-104	-108	-109	-107	-99	-82	-65	-74	-82	-76	-46	-74	-72	-75	-75	-80	-75	-84
13		-82	-75	-81	-92	-92	-87	-92	-102	-105	-111	-118	-112	-99	-92	-81	-83	-79	-78	-74	-79	-78	-87	-87	-84	-90
14	D	-83	-91	-96	-86	-89	-92	-99	-100	-100	-111	-107	-99	-88	-76	-80	-84	-72	-59	-42	-51	-75	-89	-86	-88	-85
15	D	-132	-142	-95	-98	-102	-98	-94	-106	-119	-125	-124	-127	-109	-101	-84	-80	-71	-79	-82	-80	-79	-80	-82	-81	-99
16		-82	-80	-81	-80	-84	-89	-98	-105	-110	-106	-98	-119	-102	-95	-75	-86	-87	-77	-83	-81	-78	-80	-83	-84	-89
17		-84	-82	-83	-85	-83	-94	-92	-104	-114	-130	-123	-103	-95	-77	-76	-76	-82	-57	-81	-75	-80	-84	-83	-83	-88
18		-85	-79	-81	-92	-96	-93	-100	-109	-113	-114	-121	-122	-110	-96	-79	-87	-83	-81	-81	-75	-76	-80	-83	-89	-93
19		-88	-85	-81	-85	-97	-107	-111	-114	-115	-119	-112	-107	-103	-91	-85	-85	-72	-79	-79	-78	-80	-80	-83	-85	-93
20	Q	-84	-83	-85	-84	-86	-92	-99	-105	-109	-110	-111	-110	-104	-101	-91	-81	-79	-83	-79	-82	-79	-83	-86	-87	-91
21	Q	-85	-83	-78	-81	-83	-92	-98	-106	-113	-114	-119	-116	-110	-95	-84	-82	-78	-75	-77	-79	-80	-84	-85	-85	-91
22		-86	-86	-84	-85	-89	-89	-97	-106	-109	-111	-116	-96	-101	-90	-85	-60	-48	-47	-57	-67	-65	-84	-85	-90	-85
23		-91	-88	-91	-104	-102	-86	-88	-96	-110	-111	-109	-112	-106	-99	-87	-75	-56	-55	-76	-71	-77	-80	-81	-91	-89
24	D	-105	-93	-115	-86	-98	-102	-119	-120	-127	-142	-138	-122	-117	-99	-87	-89	-64	-72	-77	-83	-87	-90	-97	-101	-101
25		-101	-98	-116	-102	-96	-88	-89	-101	-116	-126	-125	-122	-106	-88	-74	-71	-85	-86	-80	-71	-84	-82	-80	-84	-95
26		-98	-87	-87	-87	-90	-100	-107	-110	-112	-118	-123	-128	-104	-104	-89	-68	-74	-64	-70	-70	-71	-85	-92	-114	-94
27		-87	-91	-94	-103	-112	-102	-106	-123	-122	-127	-125	-120	-115	-106	-93	-85	-82	-79	-78	-78	-78	-82	-76	-85	-98
28		-88	-92	-92	-90	-100	-107	-120	-115	-116	-118	-116	-110	-121	-97	-96	-86	-75	-72	-70	-78	-82	-85	-87	-89	-96
29		-90	-93	-92	-96	-100	-103	-109	-112	-117	-115	-111	-103	-95	-93	-89	-83	-88	-83	-86	-77	-74	-86	-87	-88	-95
30		-89	-86	-85	-83	-87	-96	-102	-106	-108	-110	-104	-106	-94	-84	-82	-79	-86	-77	-53	-68	-83	-81	-87	-83	-88
All		-92	-91	-90	-90	-94	-97	-101	-109	-114	-118	-117	-113	-102	-92	-83	-81	-77	-73	-74	-75	-80	-84	-85	-88	-93
Quiet		-87	-87	-85	-85	-88	-93	-101	-108	-113	-112	-112	-108	-102	-96	-90	-86	-83	-79	-76	-78	-80	-83	-85	-83	-92
Dist.		-110	-105	-98	-88	-100	-108	-105	-113	-118	-124	-124	-117	-100	-85	-69	-77	-68	-70	-67	-75	-93	-90	-90	-93	-95

June 2016 East component Y in nT (Y = 1400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		730	729	727	726	731	737	743	737	725	710	694	685	684	690	699	708	708	709	709	707	715	709	708	704	713
2	Q	710	718	724	729	734	733	733	725	710	696	685	684	689	692	696	703	709	710	710	711	710	710	711	714	710
3	Q	719	721	725	726	727	732	737	735	724	709	695	686	680	680	691	703	712	715	715	714	713	711	710	709	712
4	Q	716	723	727	732	735	740	744	739	730	719	702	692	687	689	696	705	708	712	712	716	712	709	712	713	715
5	D	718	721	727	737	730	732	735	733	722	709	688	667	659	652	650	658	680	686	706	653	716	758	717	741	704
6	D	715	727	745	755	750	726	721	724	721	722	704	695	705	693	695	712	713	710	703	709	709	711	716	719	717
7		718	721	735	743	743	743	747	742	728	710	693	685	680	682	693	698	705	709	715	716	708	715	733	735	717
8		727	725	733	732	724	730	735	733	723	704	685	678	678	680	687	693	704	710	713	712	712	712	713	713	711
9		716	719	723	732	738	740	737	732	728	721	709	699	692	694	695	701	707	713	720	719	713	713	715	716	716
10		718	719	727	731	732	735	740	741	734	721	704	683	669	668	677	681	694	702	702	712	717	711	708	704	710
11		709	750	756	747	748	740	740	740	733	725	706	696	690	687	688	700	717	722	715	717	709	731	740	720	722
12		716	727	733	732	736	743	734	731	726	713	695	683	681	687	692	704	706	707	714	709	705	709	714	712	713
13		709	727	732	738	723	735	744	744	734	713	696	685	681	681	692	705	706	708	712	711	723	713	713	716	714
14	D	718	714	716	727	733	741	742	740	732	720	711	700	691	690	695	697	695	689	690	767	729	727	756	737	719
15	D	743	733	740	742	742	749	745	743	737	733	717	703	691	684	683	691	697	704	706	709	713	713	716	719	719
16		720	726	732	734	737	738	740	738	730	716	700	693	690	693	696	709	706	707	706	709	712	713	712	712	715
17		718	723	724	728	730	725	733	734	732	719	706	702	699	696	697	699	702	707	714	715	708	708	709	710	714
18		714	720	720	715	723	729	734	732	726	715	699	691	690	694	696	708	709	712	712	713	725	714	711	719	713
19		716	713	726	731	738	733	736	734	728	714	701	691	688	689	696	705	708	711	712	711	712	712	715	717	714
20	Q	721	726	730	732	733	735	735	732	729	722	709	699	694	697	698	702	710	712	713	713	712	709	715	719	716
21	Q	719	720	730	737	741	738	740	738	730	717	703	695	692	694	700	706	711	715	713	711	708	711	713	713	717
22		715	722	732	738	735	735	737	734	726	710	695	682	681	676	678	685	694	697	694	709	708	717	717	718	710
23		720	728	731	734	723	733	743	740	731	720	707	696	689	692	696	700	698	704	707	708	712	712	719	756	717
24	D	758	731	754	733	725	728	731	728	723	714	703	687	676	673	686	693	693	704	712	711	714	716	722	710	713
25		712	722	716	715	724	740	748	751	741	732	719	705	691	684	691	703	706	710	711	723	715	711	705	726	717
26		728	732	738	743	742	752	746	739	727	715	700	693	690	686	688	700	703	702	705	714	721	715	725	713	717
27		734	734	729	738	733	735	743	731	728	721	712	702	696	702	702	700	701	704	707	712	714	713	723	731	719
28		730	728	721	738	739	737	737	736	730	723	708	695	693	693	698	700	702	713	720	710	708	713	716	717	717
29		717	720	729	735	742	740	733	729	720	713	701	692	690	694	698	700	699	700	704	707	716	720	718	721	714
30		723	725	728	735	739	734	737	737	735	723	703	695	692	693	699	702	706	702	699	727	718	716	719	719	717
All		721	725	730	734	734	736	738	736	728	716	702	691	687	687	691	699	704	707	709	712	714	715	717	719	715
Quiet		717	721	727	731	734	736	738	733	725	713	699	691	689	690	696	704	710	713	713	713	711	710	712	713	714
Dist.		730	725	736	739	736	735	735	734	727	719	705	690	684	678	682	690	695	699	703	710	716	725	725	725	714

June 2016 Vertical component Z in nT (Z = 49400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		698	704	709	707	705	706	709	707	706	703	700	703	707	710	718	725	724	718	714	711	710	710	711	706	709
2	Q	709	712	714	713	713	711	708	705	702	700	698	703	705	702	702	707	712	716	715	714	712	711	710	708	708
3	Q	701	706	708	705	706	712	715	710	700	697	695	695	700	706	711	715	714	712	713	714	713	712	710	705	707
4	Q	703	710	713	712	712	713	712	709	701	694	693	698	706	709	711	713	714	714	714	713	712	710	709	708	708
5	D	707	706	705	704	699	699	698	693	689	697	698	706	709	726	757	785	791	759	731	606	626	674	646	652	703
6	D	553	615	629	644	656	666	695	699	711	710	716	732	744	735	741	748	749	744	710	705	720	715	711	713	698
7		711	702	710	714	711	712	714	713	711	707	712	714	713	718	715	712	716	720	723	719	710	692	684	678	710
8		679	700	703	700	704	710	715	714	710	712	714	713	715	718	717	714	715	713	713	713	712	712	713	712	710
9		710	709	709	711	711	709	709	712	710	706	702	706	712	715	718	718	718	717	720	716	713	713	714	713	712
10		714	713	714	710	706	706	710	709	707	702	697	697	707	710	719	720	720	718	718	723	714	717	716	710	712
11		702	680	694	703	701	700	702	704	709	710	702	707	713	716	723	725	734	739	735	725	715	698	682	702	709
12		711	714	713	710	707	706	701	701	696	691	694	696	697	711	723	727	726	732	735	729	722	715	712	711	712
13		708	708	707	705	703	705	706	702	705	703	701	709	717	718	718	716	716	716	717	716	715	712	713	714	710
14	D	714	706	691	697	701	706	708	703	699	694	695	698	705	712	718	714	712	717	720	700	673	690	693	692	702
15	D	661	615	667	691	699	708	708	708	711	711	715	713	719	721	724	725	726	721	716	715	714	714	715	715	706
16		715	716	715	714	715	711	711	712	708	702	702	704	709	716	723	730	724	721	718	717	717	711	713	713	714
17		715	717	716	712	707	707	710	707	707	710	713	720	721	720	725	729	728	734	732	727	722	718	716	715	718
18		714	717	714	706	701	705	707	709	707	704	707	710	714	729	735	734	730	722	719	718	714	709	710	713	715
19		714	709	712	713	714	713	712	709	708	708	709	717	721	724	724	726	726	721	717	715	715	714	714	714	715
20	Q	715	716	714	714	712	711	714	713	704	700	702	707	712	717	717	715	716	715	716	716	715	714	715	716	713
21	Q	716	717	717	719	717	714	712	711	708	706	705	707	708	715	715	716	715	717	716	713	712	713	713	713	713
22		712	713	712	712	711	710	709	709	706	699	697	704	708	712	714	717	722	727	729	728	714	714	713	716	713
23		715	715	714	709	697	702	709	708	705	703	700	705	709	711	713	715	719	725	726	723	719	716	700	665	709
24	D	647	624	619	643	682	698	702	711	713	712	709	710	712	717	730	727	732	735	732	724	720	708	693	695	700
25		690	701	696	699	706	713	717	721	718	715	716	719	717	721	727	733	730	724	718	714	708	711	700	685	712
26		696	710	713	714	712	708	705	705	706	708	709	711	713	713	720	732	729	725	724	717	703	706	696	652	710
27		649	690	706	712	716	718	714	714	714	711	709	710	718	719	722	722	719	719	717	717	717	713	701	698	710
28		707	706	707	710	711	715	713	712	711	707	706	713	714	713	714	716	719	725	722	717	716	716	716	714	713
29		710	709	712	711	708	710	712	712	713	706	704	705	710	712	716	718	715	718	720	720	714	715	716	716	713
30		716	715	714	716	715	714	711	703	699	700	697	695	704	708	715	715	715	712	716	716	712	710	707	712	710
All		697	699	702	704	705	707	709	708	706	704	704	708	712	716	721	724	724	723	720	713	710	709	705	702	710
Quiet		709	712	713	713	712	712	712	709	703	699	698	702	706	710	711	713	714	715	715	714	713	712	711	710	710
Dist.		656	653	662	676	687	695	702	703	704	705	707	712	718	722	734	740	742	735	722	690	690	700	691	693	702

Nurmijarvi Finland

July 2016 North component X in nT (X = 14900 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		-89	-76	-73	-84	-96	-101	-101	-112	-119	-126	-108	-110	-100	-98	-84	-83	-81	-81	-76	-79	-80	-83	-87	-88	-92
2		-88	-85	-86	-86	-90	-89	-92	-103	-109	-114	-109	-108	-100	-87	-84	-82	-82	-75	-61	-54	-52	-52	-59	-73	-84
3		-69	-73	-96	-85	-94	-97	-93	-97	-100	-116	-113	-110	-99	-88	-81	-76	-72	-73	-73	-77	-70	-82	-93	-83	-88
4		-89	-88	-88	-91	-93	-98	-108	-119	-117	-123	-124	-108	-89	-87	-85	-83	-82	-78	-80	-74	-74	-83	-88	-91	-93
5	Q	-89	-88	-90	-89	-92	-97	-101	-110	-119	-128	-129	-115	-106	-96	-85	-79	-78	-83	-86	-80	-79	-80	-85	-86	-95
6		-85	-85	-84	-85	-88	-97	-103	-109	-115	-126	-121	-116	-103	-89	-78	-73	-72	-70	-73	-69	-67	-65	-67	-72	-88
7	D	-69	-61	-69	-72	-85	-80	-92	-90	-102	-113	-112	-101	-98	-82	-102	-43	-37	-66	-64	-53	-68	-99	-103	-97	-82
8	D	-97	-93	-81	-77	-75	-77	-93	-113	-129	-138	-141	-129	-119	-77	-60	-80	-55	-61	-72	-66	-85	-83	-84	-85	-91
9		-85	-103	-98	-92	-95	-94	-104	-121	-131	-131	-133	-121	-96	-73	-75	-82	-81	-78	-83	-83	-85	-87	-88	-88	-96
10		-89	-85	-91	-90	-92	-98	-108	-118	-122	-120	-128	-111	-107	-111	-87	-81	-73	-80	-71	-82	-82	-81	-81	-93	-95
11		-95	-97	-96	-96	-96	-94	-88	-100	-117	-132	-130	-125	-129	-112	-80	-60	-68	-72	-75	-81	-84	-79	-91	-93	-96
12	D	-103	-106	-109	-108	-137	-94	-114	-123	-142	-157	-136	-129	-114	-104	-89	-80	-79	-67	-71	-74	-75	-79	-92	-100	-103
13		-105	-97	-91	-91	-95	-96	-102	-111	-118	-131	-120	-114	-110	-98	-96	-90	-84	-74	-74	-77	-79	-83	-76	-82	-96
14		-85	-87	-86	-93	-98	-100	-128	-111	-129	-154	-137	-113	-106	-91	-98	-77	-86	-76	-78	-78	-78	-84	-84	-90	-98
15		-96	-86	-84	-92	-98	-88	-97	-119	-129	-130	-140	-118	-112	-97	-91	-83	-70	-76	-81	-85	-87	-87	-86	-85	-97
16		-90	-97	-93	-83	-95	-106	-114	-116	-113	-111	-114	-103	-91	-101	-94	-89	-86	-81	-82	-73	-84	-88	-92	-93	-95
17		-96	-93	-94	-96	-93	-94	-101	-109	-112	-120	-127	-114	-109	-87	-82	-85	-80	-83	-78	-80	-80	-87	-89	-90	-95
18	Q	-90	-88	-86	-88	-93	-96	-105	-109	-115	-117	-112	-106	-104	-97	-90	-96	-89	-87	-84	-81	-83	-87	-91	-95	-95
19		-92	-92	-90	-89	-95	-97	-100	-103	-107	-114	-118	-115	-97	-76	-79	-85	-89	-89	-82	-81	-80	-78	-78	-72	-92
20	D	-38	-98	-93	-126	-104	-89	-75	-88	-106	-106	-113	-113	-106	-101	-93	-85	-75	-82	-89	-94	-89	-91	-93	-95	-93
21		-95	-89	-88	-89	-93	-99	-108	-119	-124	-132	-136	-131	-119	-106	-100	-82	-90	-91	-88	-89	-89	-91	-88	-92	-101
22		-95	-97	-91	-92	-97	-101	-101	-114	-116	-124	-134	-119	-100	-101	-78	-99	-60	-69	-89	-88	-87	-89	-93	-85	-97
23		-86	-83	-85	-89	-91	-110	-117	-111	-122	-121	-115	-124	-117	-102	-93	-84	-81	-84	-82	-81	-84	-89	-94	-96	-98
24		-96	-96	-96	-93	-95	-96	-94	-99	-106	-114	-115	-119	-103	-98	-88	-75	-38	-22	-46	-82	-83	-77	-85	-122	-89
25	D	-96	-74	-72	-109	-108	-118	-135	-129	-134	-132	-129	-141	-120	-89	-75	-97	-95	-95	-99	-99	-90	-92	-93	-97	-105
26	Q	-97	-96	-93	-92	-94	-95	-103	-113	-123	-134	-133	-127	-119	-103	-96	-99	-90	-85	-83	-83	-92	-100	-96	-96	-102
27	Q	-95	-93	-95	-95	-97	-98	-102	-106	-113	-120	-125	-121	-114	-104	-95	-87	-83	-80	-80	-77	-75	-77	-81	-77	-95
28		-81	-72	-72	-78	-98	-102	-100	-107	-116	-113	-119	-116	-123	-121	-97	-86	-71	-71	-90	-100	-91	-91	-91	-94	-96
29		-110	-104	-98	-103	-113	-106	-104	-108	-119	-138	-132	-113	-126	-107	-100	-83	-78	-73	-82	-85	-89	-93	-91	-95	-102
30		-101	-100	-93	-90	-94	-97	-98	-105	-114	-119	-124	-117	-102	-94	-93	-91	-84	-85	-81	-87	-88	-90	-91	-95	-97
31	Q	-95	-97	-91	-89	-93	-95	-101	-110	-116	-123	-124	-121	-113	-103	-88	-91	-85	-84	-82	-84	-86	-89	-91	-91	-98
All		-90	-90	-89	-91	-96	-97	-103	-110	-118	-125	-124	-117	-108	-96	-88	-83	-77	-76	-79	-80	-81	-84	-87	-90	-95
Quiet		-93	-92	-91	-91	-94	-96	-102	-110	-117	-124	-125	-118	-111	-101	-91	-90	-85	-84	-83	-81	-83	-87	-89	-89	-97
Dist.		-81	-86	-85	-98	-102	-91	-102	-108	-123	-129	-126	-123	-111	-91	-84	-77	-68	-74	-79	-77	-81	-89	-93	-95	-95

July 2016 East component Y in nT (Y = 1400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		708	722	733	744	744	735	733	723	718	707	700	690	689	693	698	707	711	713	713	714	714	715	715	720	715
2		724	724	730	734	732	740	739	735	732	718	700	693	687	686	693	695	698	699	695	696	697	705	726	731	713
3		714	726	733	746	746	741	738	736	725	709	695	682	680	680	686	695	705	710	706	712	718	725	718	720	714
4		734	729	735	731	736	746	749	737	729	720	707	701	697	695	697	705	710	712	713	712	734	724	725	728	721
5	Q	728	730	735	741	746	747	744	743	733	716	704	693	685	685	692	703	714	720	717	714	714	721	717	718	719
6		722	727	734	739	740	738	738	732	719	698	677	671	676	684	695	701	702	703	708	709	709	730	714	713	
7	D	713	721	732	732	730	722	730	739	737	724	707	693	678	665	666	681	688	712	715	713	774	747	752	766	718
8	D	714	725	722	739	748	750	743	738	730	718	701	684	682	681	695	710	708	714	721	737	709	716	714	716	717
9		722	701	720	744	751	755	754	745	735	724	706	697	690	704	709	709	713	720	727	709	708	713	719	722	721
10		720	726	720	727	738	746	745	743	730	722	712	698	692	694	699	701	707	713	718	714	713	720	724	722	718
11		730	737	744	739	731	730	753	757	750	739	723	712	701	701	697	699	708	719	718	716	714	730	732	721	725
12	D	721	743	726	723	680	689	714	719	727	712	694	687	692	696	708	713	709	711	711	719	726	741	726	728	713
13		704	709	736	744	744	752	752	749	744	734	723	714	707	705	705	700	707	710	712	714	715	716	715	720	722
14		722	729	728	721	726	730	733	721	723	714	695	689	683	688	692	702	718	717	714	722	725	717	711	716	714
15		708	721	718	718	726	738	744	741	737	729	716	706	696	697	701	707	716	725	720	717	716	715	717	726	719
16		721	708	726	736	742	743	737	726	717	708	696	688	688	698	700	705	711	712	715	720	715	713	716	720	715
17		722	725	726	725	731	737	746	740	732	718	705	694	689	692	701	710	720	721	715	711	710	714	717	720	718
18	Q	726	731	736	742	746	743	742	732	717	711	712	710	703	699	707	717	722	719	716	714	713	712	715	714	721
19		718	726	732	735	738	743	747	743	735	723	709	694	688	693	700	711	714	713	713	713	715	713	715	710	718
20	D	709	763	766	788	788	752	766	765	740	719	708	697	681	675	676	691	701	711	720	724	723	722	723	724	726
21		726	726	734	740	744	746	747	743	736	724	709	696	691	691	700	707	718	723	725	725	722	723	716	717	722
22		724	728	736	745	755	757	752	742	731	716	700	686	681	685	685	707	712	716	736	734	717	714	712	720	720
23		717	717	734	742	743	740	725	740	733	730	722	709	699	694	697	706	717	723	724	720	721	724	721	724	722
24		728	733	744	751	752	748	749	743	735	725	714	704	693	688	692	695	688	719	738	720	717	731	728	728	723
25	D	726	760	767	751	743	731	735	731	729	723	714	699	693	694	694	693	705	729	720	724	733	738	723	724	724
26	Q	722	721	723	731	734	737	745	746	739	729	716	703	695	693	701	706	713	715	715	718	734	731	726	723	721
27	Q	725	728	733	736	743	747	746	746	740	731	718	704	697	696	702	705	708	712	715	713	715	718	725	729	722
28		729	742	750	754	758	733	732	737	728	719	706	693	683	695	696	696	698	709	751	751	731	723	736	734	724
29		726	730	744	756	735	735	734	731	730	717	703	692	694	698	702	709	731	733	715	719	710	713	718	723	721
30		724	705	728	740	743	744	741	740	734	724	709	701	703	707	714	720	719	722	728	722	719	718	721	724	723
31	Q	719	734	739	746	748	746	745	743	738	724	710	699	695	701	709	718	720	721	722	718	718	721	722	724	724
All		721	727	734	740	741	740	742	739	732	721	707	696	690	692	697	704	710	716	718	718	719	721	722	723	720
Quiet		724	729	733	739	743	744	744	742	733	722	712	702	695	695	702	710	715	717	717	715	718	720	721	722	721
Dist.		717	742	742	747	738	729	738	738	733	719	705	692	685	682	688	697	702	715	718	723	733	733	728	731	720

July 2016 Vertical component Z in nT (Z = 49400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		705	698	707	712	708	708	711	709	711	711	707	708	717	719	721	721	721	723	721	718	717	716	715	716	713
2		717	716	713	707	701	705	709	711	708	703	702	703	710	720	728	729	727	722	716	714	712	708	702	707	712
3		693	707	708	709	707	706	706	703	695	696	704	706	706	709	716	725	732	731	725	721	714	703	697	684	708
4		702	710	713	712	712	713	704	702	703	705	701	702	711	719	722	720	717	714	713	714	715	703	703	702	710
5	Q	708	710	709	707	703	702	702	705	708	705	698	696	705	710	714	718	721	719	715	713	713	711	713	714	709
6		715	716	715	716	716	712	710	704	703	704	704	700	703	705	711	712	717	720	719	717	715	713	700	707	711
7	D	706	702	710	708	707	701	703	706	706	702	710	723	731	744	747	756	779	772	742	727	726	680	667	661	717
8	D	665	673	696	708	717	715	714	714	716	723	736	741	756	750	771	778	773	768	757	715	704	718	720	718	727
9		717	692	663	694	709	716	712	711	715	716	714	716	731	760	763	761	749	748	740	728	722	718	714	715	722
10		719	721	713	710	711	713	715	714	715	713	714	717	724	723	724	721	722	722	726	725	723	718	709	698	717
11		684	687	702	706	711	714	717	715	713	710	711	721	726	729	725	728	731	737	734	728	719	688	689	705	714
12	D	689	676	673	681	657	663	688	702	714	718	718	731	742	740	735	736	733	732	728	726	717	700	687	682	707
13		667	669	698	710	713	717	715	714	714	711	711	711	717	727	732	729	729	725	723	722	719	718	711	700	713
14		705	702	710	713	709	703	705	703	703	708	711	712	719	725	729	731	736	735	732	732	725	722	716	708	716
15		683	691	694	688	690	708	711	712	715	714	717	720	723	732	733	731	732	735	732	726	723	720	703	699	714
16		709	696	681	702	705	709	710	707	706	711	712	714	728	740	732	727	723	722	723	722	717	718	717	718	715
17		719	720	718	710	709	710	713	712	710	711	713	715	719	730	736	741	740	733	726	721	718	717	719	719	720
18	Q	719	721	720	717	716	713	711	708	705	705	706	710	715	718	716	717	719	719	718	718	718	718	718	717	715
19		714	719	720	720	721	719	718	716	714	712	709	712	717	723	730	736	732	724	719	718	718	717	716	716	719
20	D	677	670	704	695	693	674	689	695	699	703	700	702	710	716	714	719	720	717	717	718	718	718	719	720	704
21		720	721	722	723	724	722	720	719	720	720	714	711	714	720	725	728	725	723	720	720	718	718	716	713	720
22		709	715	719	720	717	714	713	712	710	711	707	712	724	736	744	747	757	747	743	733	724	723	720	719	724
23		719	714	715	719	716	716	714	719	719	717	717	716	719	723	722	723	726	726	722	720	720	720	714	717	719
24		719	716	709	713	711	712	713	715	713	707	704	711	717	717	719	717	724	732	718	738	732	721	709	692	716
25	D	671	651	658	682	694	697	703	709	715	727	733	740	766	783	795	761	752	756	730	727	724	708	708	711	721
26	Q	713	717	722	725	724	727	725	723	722	719	718	720	725	731	736	739	738	732	728	726	724	715	716	720	724
27	Q	722	724	723	726	725	724	724	721	719	718	717	716	718	720	722	721	723	721	719	718	718	718	719	704	720
28		705	699	708	709	706	702	700	701	702	702	706	710	714	720	727	730	732	757	764	722	731	721	703	705	716
29		702	703	712	711	696	693	700	701	704	709	715	718	720	727	725	729	743	734	729	722	709	709	714	718	714
30		714	691	707	713	712	716	718	718	716	716	718	719	721	723	725	726	723	721	721	719	718	719	718	716	717
31	Q	708	711	720	721	719	716	715	711	710	710	710	709	713	717	720	720	723	722	720	719	718	717	717	718	716
All		704	702	706	709	708	708	710	710	710	711	711	714	721	728	731	731	733	732	727	722	719	713	709	708	716
Quiet		714	716	719	719	717	717	715	714	713	711	710	710	715	719	721	723	725	723	720	719	718	716	716	714	717
Dist.		682	674	688	695	693	690	699	705	710	715	719	727	741	746	752	750	751	749	735	722	718	705	700	698	715

Nurmijarvi Finland

August 2016 North component X in nT (X = 14900 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1	Q	-90	-93	-92	-91	-96	-100	-105	-111	-119	-130	-126	-116	-108	-92	-82	-82	-81	-85	-88	-83	-84	-82	-85	-88	-96
2		-80	-88	-86	-88	-95	-93	-102	-100	-104	-106	-106	-97	-84	-79	-66	-78	-70	-78	-70	-66	-62	-59	-109	-131	-87
3	D	-92	-97	-69	-62	-73	-114	-129	-117	-115	-167	-153	-142	-89	-107	-111	-110	-95	-64	-97	-97	-90	-93	-84	-97	-103
4		-119	-99	-93	-95	-112	-122	-111	-127	-131	-148	-129	-118	-107	-91	-70	-66	-55	-91	-102	-101	-98	-93	-90	-93	-103
5	D	-94	-96	-93	-92	-101	-129	-130	-114	-123	-128	-120	-116	-107	-110	-92	-102	-95	-90	-91	-95	-88	-83	-112	-103	-104
6		-94	-108	-92	-95	-96	-100	-110	-122	-132	-125	-128	-103	-106	-98	-95	-91	-93	-94	-92	-89	-82	-88	-99	-99	-101
7		-127	-121	-90	-94	-96	-97	-105	-111	-119	-123	-125	-124	-107	-110	-90	-76	-91	-80	-81	-88	-91	-83	-83	-92	-100
8		-117	-104	-95	-97	-95	-100	-106	-116	-129	-135	-127	-120	-106	-78	-72	-43	-32	-73	-99	-95	-92	-92	-93	-94	-96
9		-94	-92	-96	-103	-104	-105	-112	-120	-130	-145	-141	-121	-94	-104	-94	-78	-85	-99	-96	-92	-94	-92	-95	-112	-104
10		-116	-92	-92	-102	-105	-110	-125	-127	-135	-137	-123	-127	-97	-104	-93	-87	-74	-88	-91	-86	-94	-117	-99	-104	-105
11		-103	-96	-92	-89	-93	-101	-113	-119	-125	-128	-130	-125	-109	-99	-92	-82	-63	-66	-88	-92	-98	-94	-89	-104	-100
12		-97	-104	-112	-93	-99	-109	-115	-121	-131	-143	-134	-121	-117	-104	-98	-92	-87	-89	-90	-89	-90	-96	-97	-96	-105
13		-96	-98	-95	-99	-100	-107	-116	-123	-128	-130	-120	-109	-93	-76	-76	-79	-88	-90	-90	-95	-96	-99	-101	-102	-100
14	Q	-99	-97	-91	-93	-97	-104	-111	-114	-117	-116	-114	-100	-108	-104	-90	-86	-85	-90	-90	-94	-91	-92	-90	-90	-98
15	Q	-90	-93	-94	-93	-97	-101	-106	-114	-118	-126	-118	-108	-101	-93	-87	-86	-91	-87	-90	-87	-86	-86	-91	-92	-97
16		-94	-94	-92	-91	-92	-96	-101	-108	-113	-121	-118	-112	-95	-90	-95	-98	-91	-88	-85	-78	-74	-81	-98	-92	-96
17		-85	-81	-84	-96	-99	-91	-93	-102	-112	-118	-117	-107	-112	-100	-85	-87	-90	-90	-83	-84	-90	-94	-102	-94	-96
18		-104	-101	-99	-99	-98	-101	-105	-108	-113	-121	-117	-113	-105	-95	-96	-88	-88	-89	-85	-89	-91	-93	-99	-94	-100
19		-95	-96	-96	-96	-98	-102	-109	-119	-133	-131	-117	-106	-100	-97	-90	-90	-99	-92	-94	-92	-90	-89	-90	-88	-100
20		-87	-95	-90	-98	-97	-99	-110	-122	-120	-114	-110	-112	-103	-103	-95	-93	-92	-93	-89	-87	-87	-88	-92	-93	-99
21		-94	-94	-94	-94	-96	-96	-98	-104	-108	-112	-99	-97	-91	-84	-68	-83	-94	-76	-83	-78	-76	-76	-94	-95	-91
22	Q	-91	-95	-94	-97	-101	-102	-108	-115	-119	-123	-118	-111	-107	-101	-92	-91	-86	-89	-90	-88	-87	-89	-92	-98	-99
23	D	-100	-96	-94	-98	-91	-89	-94	-103	-117	-123	-120	-99	-93	-101	-88	-122	-85	-76	-97	-164	-183	-199	-139	-98	-111
24	D	-125	-141	-130	-104	-103	-120	-128	-129	-134	-133	-144	-136	-138	-119	-101	-105	-102	-111	-102	-97	-103	-84	-101	-106	-117
25		-108	-107	-103	-100	-105	-110	-117	-134	-155	-151	-125	-118	-117	-96	-106	-90	-93	-80	-81	-96	-92	-94	-82	-104	-107
26		-110	-95	-97	-99	-99	-106	-113	-121	-122	-120	-112	-107	-104	-103	-96	-97	-106	-92	-91	-94	-88	-97	-98	-91	-102
27		-97	-101	-100	-99	-102	-103	-104	-111	-120	-122	-112	-117	-102	-92	-91	-92	-95	-93	-92	-95	-94	-93	-93	-94	-101
28	Q	-94	-94	-96	-96	-98	-102	-110	-114	-117	-119	-110	-106	-106	-101	-96	-96	-96	-94	-93	-93	-89	-84	-85	-83	-99
29		-87	-89	-88	-92	-95	-97	-101	-109	-121	-125	-112	-102	-98	-98	-96	-104	-91	-90	-89	-89	-85	-78	-86	-84	-96
30	D	-86	-95	-98	-89	-89	-93	-93	-113	-127	-127	-135	-118	-113	-103	-78	-107	-99	-105	-97	-111	-107	-101	-119	-89	-104
31		-93	-96	-97	-95	-97	-103	-108	-115	-123	-134	-128	-123	-114	-105	-97	-90	-91	-87	-88	-86	-100	-103	-109	-112	-104
All		-99	-98	-95	-95	-97	-103	-109	-116	-123	-128	-122	-114	-104	-98	-90	-89	-86	-87	-90	-92	-93	-93	-97	-97	-101
Quiet		-93	-94	-93	-94	-98	-102	-108	-114	-118	-123	-117	-108	-106	-98	-90	-88	-88	-89	-90	-89	-87	-87	-89	-90	-98
Dist.		-100	-105	-97	-89	-91	-109	-115	-115	-123	-135	-134	-122	-108	-108	-94	-109	-95	-89	-97	-113	-114	-112	-111	-99	-108

August 2016 East component Y in nT (Y = 1400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1	Q	724	727	728	737	742	742	745	743	735	720	709	695	689	696	706	715	717	717	716	714	714	717	724	724	721
2		724	729	734	740	741	742	742	734	726	713	695	679	675	681	686	694	700	708	711	711	708	700	750	791	717
3	D	765	681	723	739	750	725	693	695	730	734	709	689	697	695	711	706	719	762	741	730	724	725	733	728	721
4		698	721	729	745	739	736	738	731	725	714	703	692	701	714	704	734	738	724	755	743	729	715	715	713	723
5	D	719	728	736	742	741	732	709	719	717	718	707	701	696	711	707	715	728	728	720	723	724	745	744	713	722
6		727	723	729	736	744	747	742	742	726	720	704	696	701	703	706	718	738	724	717	722	728	733	736	735	725
7		712	684	734	742	746	749	754	749	739	726	709	698	695	699	710	715	731	728	717	719	717	715	734	732	723
8		714	703	731	736	735	746	753	750	738	721	707	694	692	695	702	712	747	736	719	715	714	716	720	724	722
9		729	731	732	735	734	749	757	754	742	725	700	698	693	695	700	731	739	722	713	710	715	727	753	748	726
10		698	723	737	739	735	744	739	734	721	708	690	693	695	703	717	739	741	722	723	723	716	726	721	714	721
11		732	736	739	743	747	749	748	744	735	722	707	695	693	692	705	712	723	738	740	726	724	721	727	731	726
12		737	730	702	744	739	743	747	746	740	727	716	702	702	719	722	721	718	715	720	715	715	721	722	724	724
13		729	733	738	739	741	739	735	729	722	711	700	692	696	711	710	713	717	717	728	716	715	716	720	722	720
14	Q	727	726	731	737	740	742	738	731	721	713	705	697	697	705	708	714	718	716	717	719	720	721	720	722	720
15	Q	721	728	734	737	738	737	738	733	722	712	704	702	704	710	718	720	722	718	716	717	717	728	725	721	722
16		723	723	732	739	739	735	731	728	725	715	703	695	691	697	702	711	720	716	712	712	721	727	740	743	720
17		745	734	743	752	735	728	730	733	728	716	702	691	693	700	710	719	723	721	717	717	728	736	738	736	724
18		742	739	747	734	738	746	745	735	728	718	706	697	691	696	698	711	723	722	722	721	721	732	727	729	724
19		730	730	732	736	740	743	743	739	726	715	713	703	698	706	711	715	727	723	725	721	719	717	720	722	723
20		733	733	737	742	745	751	749	737	729	722	705	697	695	697	704	713	719	720	720	720	721	724	726	729	724
21		729	730	733	736	740	745	748	744	732	712	697	686	685	689	687	694	702	708	715	718	716	740	752	726	719
22	Q	730	732	735	741	740	743	742	736	725	718	705	697	693	699	706	714	718	719	721	728	723	731	738	739	724
23	D	738	739	742	736	734	739	742	742	733	719	703	679	677	673	675	686	692	710	717	742	757	771	785	732	724
24	D	741	748	703	755	759	754	746	740	727	711	695	687	687	703	714	722	730	724	722	721	724	725	728	732	725
25		732	726	736	745	747	747	748	742	727	712	709	700	704	711	722	726	725	743	728	725	723	732	760	756	730
26		764	752	759	741	741	745	745	742	732	718	704	699	698	702	707	714	717	722	733	722	722	726	718	726	727
27		734	735	732	738	747	745	740	736	724	717	710	706	706	706	710	715	720	719	720	721	724	724	725	726	724
28	Q	730	730	731	736	740	740	738	732	723	714	706	705	708	713	716	718	716	716	718	720	720	720	722	723	722
29		726	729	729	735	738	741	742	738	728	715	696	688	690	700	708	718	722	723	735	725	730	742	722	720	723
30	D	722	720	713	733	742	744	742	735	727	717	701	688	681	686	698	697	712	723	758	765	736	764	703	725	722
31		733	736	739	740	743	745	748	741	736	721	703	694	695	702	713	718	723	722	719	724	736	734	744	754	728
All		729	727	732	740	741	742	740	737	729	717	704	695	694	700	706	714	722	723	724	723	723	728	732	731	723
Quiet		726	729	732	737	740	741	740	735	725	715	706	699	698	704	711	716	718	717	718	719	719	724	726	726	722
Dist.		737	723	723	741	745	739	726	726	727	720	703	689	688	694	701	705	716	729	732	737	733	746	739	726	723

August 2016 Vertical component Z in nT (Z = 49400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1	Q	716	716	716	716	716	714	712	708	704	703	704	707	711	719	726	727	721	715	716	717	716	714	713	715	714
2		713	716	719	719	716	711	708	705	701	700	699	700	707	708	710	711	714	714	716	714	713	709	681	610	705
3	D	606	628	684	709	711	703	697	700	709	717	749	758	758	777	775	783	768	770	725	729	728	716	704	697	721
4		671	695	704	707	710	720	716	713	720	717	717	725	748	763	787	807	756	762	754	719	729	727	725	722	730
5	D	723	723	728	728	723	721	716	714	712	722	729	733	751	755	751	750	749	744	736	733	716	694	672	659	724
6		691	695	719	725	727	725	720	723	721	722	736	736	748	744	742	744	751	735	729	727	719	708	679	694	723
7		687	650	695	715	722	721	721	724	725	720	719	714	725	731	746	753	752	742	733	727	725	716	699	668	718
8		654	666	679	693	697	707	712	711	711	709	710	714	718	729	744	766	770	762	746	733	728	726	724	723	718
9		724	724	724	720	716	720	720	718	715	718	725	725	738	745	755	772	761	743	733	728	726	715	706	702	728
10		686	697	702	712	718	718	719	726	726	730	738	725	737	738	743	757	749	737	736	724	684	670	687	700	719
11		713	724	726	728	727	726	721	717	715	711	710	713	714	718	723	726	737	754	751	729	724	719	695	702	722
12		716	708	667	670	694	706	719	719	713	714	716	719	733	751	744	742	738	734	730	726	724	723	722	722	719
13		723	724	725	725	724	724	722	722	719	718	716	724	734	749	746	741	740	738	729	724	725	724	722	722	727
14	Q	723	725	724	723	725	724	722	718	709	706	707	713	723	727	730	728	725	723	723	722	722	722	722	722	721
15	Q	720	718	723	724	722	723	724	721	718	716	715	717	719	725	731	730	727	726	726	725	724	719	719	721	722
16		722	723	723	724	722	722	722	719	715	714	717	721	725	732	735	733	735	730	726	725	721	713	698	707	722
17		703	718	721	719	714	710	713	716	716	715	712	717	722	725	727	724	722	721	721	723	723	717	721	711	718
18		711	714	715	703	699	712	712	710	712	713	717	718	723	732	734	733	731	725	724	723	722	720	719	717	718
19		718	722	724	725	724	723	723	720	719	717	710	712	717	733	742	743	737	732	733	729	726	724	721	721	725
20		707	709	711	713	720	722	719	716	715	717	709	707	715	723	729	728	723	721	721	721	721	721	721	720	718
21		721	721	722	722	720	718	715	715	712	711	711	707	707	710	717	726	722	725	725	722	720	705	703	713	716
22	Q	712	718	722	722	722	719	717	716	715	714	711	711	714	719	725	730	728	727	728	722	720	718	711	708	719
23	D	714	718	720	716	712	716	718	717	713	709	708	710	726	746	769	771	781	792	784	662	659	605	642	719	718
24	D	716	661	677	708	724	723	724	725	725	721	729	747	759	745	741	733	738	733	730	730	730	693	700	717	722
25		723	719	716	727	729	728	726	726	725	723	727	728	731	738	742	743	744	743	722	727	727	718	688	691	725
26		686	707	705	721	724	724	723	720	716	714	715	718	723	726	729	734	732	735	731	727	720	722	719	718	720
27		719	722	723	719	720	725	725	722	720	714	718	725	724	726	731	728	727	724	725	725	725	724	724	724	723
28	Q	724	724	724	724	724	726	725	721	715	715	716	721	726	727	725	722	720	720	721	722	722	722	722	722	722
29		722	722	722	724	723	722	720	717	712	704	702	706	718	726	734	734	731	732	732	725	724	700	715	720	720
30	D	721	717	700	708	715	718	717	717	718	714	704	710	724	749	771	779	784	762	752	732	710	702	688	696	725
31		714	721	726	729	729	729	729	725	719	717	721	721	723	728	731	730	727	726	727	726	726	698	670	685	720
All		706	708	712	717	718	719	719	717	716	715	717	719	727	734	740	743	740	737	732	723	719	710	704	705	721
Quiet		719	720	722	722	722	721	720	717	712	711	710	714	719	724	727	727	724	722	723	722	721	719	717	717	720
Dist.		696	689	702	714	717	716	714	715	715	717	724	732	744	754	761	764	764	760	746	717	709	682	681	698	722

Nurmijarvi Finland

September 2016 North component X in nT (X = 14900 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		-104	-120	-91	-90	-91	-108	-135	-148	-143	-147	-136	-112	-101	-107	-111	-117	-102	-89	-92	-88	-79	-149	-154	-179	-116
2	D	-128	-123	-148	-119	-148	-158	-113	-130	-136	-138	-138	-124	-100	-79	-78	-80	-90	-109	-113	-107	-102	-154	-135	-116	-119
3	D	-111	-129	-120	-104	-145	-118	-120	-143	-143	-150	-153	-147	-101	-64	-84	-67	-80	-97	-121	-122	-148	-157	-153	-162	-122
4		-127	-128	-105	-100	-109	-115	-125	-120	-141	-142	-137	-114	-116	-102	-106	-107	-104	-77	-99	-103	-77	-123	-130	-99	-113
5		-118	-116	-114	-108	-110	-124	-117	-118	-130	-137	-140	-131	-118	-104	-103	-93	-95	-105	-117	-125	-119	-106	-103	-97	-115
6		-107	-108	-113	-123	-112	-107	-117	-130	-137	-127	-124	-124	-114	-109	-110	-103	-99	-100	-100	-80	-91	-106	-101	-106	-110
7		-97	-104	-109	-115	-101	-98	-103	-108	-117	-122	-118	-125	-129	-118	-92	-93	-104	-116	-108	-105	-102	-102	-100	-102	-108
8		-107	-102	-109	-99	-105	-112	-105	-112	-125	-130	-130	-134	-127	-108	-104	-98	-111	-105	-93	-103	-101	-102	-98	-101	-109
9		-101	-101	-100	-100	-101	-102	-104	-111	-118	-121	-119	-117	-112	-108	-104	-99	-97	-98	-96	-98	-98	-94	-95	-88	-103
10	Q	-96	-98	-96	-95	-93	-95	-94	-101	-110	-119	-128	-126	-117	-106	-99	-97	-97	-96	-95	-96	-97	-99	-103	-93	-102
11	Q	-99	-100	-99	-96	-94	-95	-99	-109	-112	-116	-115	-113	-114	-111	-102	-95	-102	-101	-102	-101	-108	-107	-103	-101	-104
12		-102	-95	-92	-91	-92	-93	-103	-109	-117	-120	-117	-114	-107	-105	-103	-99	-97	-94	-93	-91	-91	-96	-99	-97	-101
13		-96	-89	-94	-92	-89	-90	-101	-115	-124	-130	-126	-115	-104	-102	-99	-96	-96	-95	-97	-95	-94	-94	-101	-101	-101
14		-101	-105	-99	-98	-94	-97	-107	-107	-115	-121	-115	-116	-102	-103	-108	-110	-116	-101	-89	-97	-126	-129	-127	-124	-109
15		-118	-117	-108	-92	-89	-93	-99	-112	-116	-123	-121	-118	-108	-103	-103	-102	-101	-97	-92	-91	-91	-92	-92	-96	-103
16	Q	-98	-99	-99	-100	-102	-104	-109	-112	-116	-119	-121	-114	-108	-103	-99	-91	-89	-94	-91	-98	-98	-99	-98	-100	-103
17	Q	-99	-95	-93	-92	-91	-93	-100	-108	-114	-109	-112	-104	-97	-92	-91	-92	-90	-90	-90	-89	-90	-91	-87	-92	-96
18		-96	-91	-95	-93	-93	-98	-106	-108	-110	-111	-124	-123	-109	-97	-99	-111	-112	-103	-106	-99	-93	-92	-87	-95	-102
19		-98	-95	-99	-101	-100	-99	-104	-112	-129	-131	-123	-107	-101	-91	-111	-109	-106	-90	-87	-86	-81	-76	-87	-91	-101
20		-94	-124	-104	-113	-118	-118	-124	-138	-136	-116	-129	-112	-112	-109	-107	-108	-108	-102	-99	-97	-86	-94	-96	-102	-110
21		-103	-102	-104	-99	-102	-104	-111	-117	-120	-139	-123	-113	-110	-109	-107	-101	-98	-94	-95	-91	-91	-91	-90	-92	-104
22		-92	-100	-98	-100	-98	-98	-102	-112	-121	-123	-124	-117	-110	-108	-103	-100	-98	-95	-95	-94	-94	-94	-95	-103	
23	Q	-96	-96	-96	-96	-95	-94	-99	-106	-113	-119	-122	-117	-108	-99	-96	-93	-90	-91	-89	-88	-88	-89	-90	-90	-98
24		-92	-93	-93	-93	-95	-97	-97	-103	-112	-117	-117	-111	-102	-92	-95	-92	-93	-88	-86	-98	-113	-106	-118	-108	-100
25		-107	-103	-100	-113	-89	-103	-111	-120	-128	-124	-115	-122	-139	-111	-105	-106	-103	-88	-110	-120	-128	-118	-116	-100	-112
26		-109	-112	-105	-113	-105	-103	-106	-123	-121	-118	-115	-109	-115	-116	-117	-118	-123	-130	-129	-132	-127	-115	-102	-132	-116
27	D	-116	-151	-152	-105	-101	-108	-111	-120	-142	-141	-134	-110	-134	-122	-102	-77	-123	-109	-105	-108	-103	-104	-116	-125	-117
28	D	-138	-118	-156	-128	-111	-102	-112	-133	-135	-129	-137	-139	-121	-109	-121	-102	-107	-131	-104	-153	-165	-120	-122	-126	-126
29	D	-112	-115	-139	-119	-123	-121	-128	-180	-178	-180	-132	-136	-116	-97	-107	-128	-127	-129	-97	-119	-114	-106	-101	-103	-125
30		-131	-135	-113	-105	-117	-116	-129	-128	-128	-146	-138	-127	-121	-113	-109	-121	-112	-131	-107	-125	-126	-139	-133	-132	-124
All		-106	-109	-108	-103	-104	-105	-110	-120	-126	-129	-126	-120	-113	-103	-102	-100	-102	-101	-100	-103	-104	-108	-108	-108	-109
Quiet		-98	-98	-96	-96	-95	-96	-100	-107	-113	-116	-119	-115	-109	-102	-98	-94	-94	-94	-93	-94	-96	-97	-96	-95	-100
Dist.		-121	-127	-143	-115	-125	-121	-117	-141	-147	-148	-139	-131	-115	-94	-99	-91	-105	-115	-108	-122	-126	-128	-125	-126	-122

September 2016 East component Y in nT (Y = 1400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		744	722	720	750	732	719	728	729	715	704	705	705	695	700	720	730	723	722	733	786	803	804	774	733	733
2	D	783	711	750	738	739	706	738	729	732	718	702	688	682	683	756	756	731	761	728	721	733	714	754	749	729
3	D	718	712	741	726	700	704	727	728	731	717	703	699	699	747	710	756	740	768	741	744	757	762	750	723	729
4		746	735	719	737	732	725	733	745	734	723	713	705	702	725	719	724	729	768	740	730	790	741	726	721	732
5		724	719	728	734	731	726	740	739	732	720	709	700	702	708	716	725	743	783	758	764	738	736	734	739	731
6		732	734	731	729	736	745	744	744	732	728	715	706	715	712	718	726	733	741	729	736	719	738	731	728	729
7		725	737	730	719	735	736	742	744	741	732	715	706	706	701	704	726	740	728	725	727	724	727	728	726	726
8		707	723	728	731	741	725	730	732	725	720	716	712	700	695	697	708	715	727	748	733	729	725	731	730	722
9		725	728	730	735	736	737	737	739	739	733	724	715	709	708	711	716	727	731	724	726	726	726	726	730	727
10	Q	730	730	733	731	732	731	739	745	743	735	724	713	706	706	712	720	724	725	726	727	732	736	734	730	728
11	Q	729	728	729	732	735	741	745	743	736	725	715	707	705	709	720	729	725	727	726	728	735	739	737	733	728
12		729	744	741	737	734	736	738	739	735	726	709	700	696	700	708	714	719	722	724	727	728	735	740	733	726
13		729	731	741	732	731	737	743	745	736	720	704	695	690	696	706	717	724	725	722	723	727	738	735	741	725
14		738	741	741	740	742	745	748	747	740	730	716	704	691	684	696	702	710	716	760	778	761	770	768	771	735
15		779	770	757	740	729	719	719	722	718	710	703	700	702	705	712	717	719	719	722	723	726	732	729	727	725
16	Q	729	730	731	733	734	738	740	740	735	724	713	707	706	708	713	717	720	719	723	725	727	730	731	732	725
17	Q	736	739	742	737	737	740	744	741	732	720	713	707	706	708	715	719	719	721	723	724	726	729	732	734	727
18		735	736	736	734	737	744	741	741	734	718	707	700	702	701	702	715	716	720	728	729	726	729	735	738	725
19		733	732	736	737	736	738	739	738	730	707	691	680	681	667	667	676	701	706	708	711	721	726	739	742	714
20		748	735	779	765	745	747	749	742	725	719	715	719	715	713	714	713	718	738	721	726	729	731	738	739	733
21		725	734	746	742	738	738	737	738	734	732	726	716	709	711	713	716	719	721	725	724	727	729	731	737	728
22		742	744	739	735	734	734	737	737	732	727	722	717	713	714	715	716	719	722	724	726	727	729	730	730	728
23	Q	730	731	731	733	733	737	741	742	738	730	724	715	708	707	710	715	718	720	722	724	726	727	729	730	726
24		730	731	731	732	734	737	740	738	733	727	717	710	705	703	708	713	714	715	716	724	739	751	769	753	728
25		744	764	800	762	722	731	736	735	728	715	696	693	708	712	718	721	723	718	731	743	817	759	746	715	735
26		738	769	762	744	726	718	723	725	724	722	711	701	702	717	696	708	724	724	767	770	782	750	735	744	733
27	D	757	769	733	719	735	739	741	734	730	729	730	709	710	731	712	799	714	720	749	761	733	740	738	715	735
28	D	732	718	710	716	729	730	733	733	729	727	725	727	712	747	726	816	777	760	809	758	741	774	756	722	742
29	D	734	741	711	684	679	711	728	720	715	714	733	730	722	740	740	821	764	737	774	752	737	732	727	718	732
30		738	722	729	727	733	729	727	739	734	725	728	714	720	722	743	748	747	773	808	757	773	763	756	753	742
All		736	735	738	734	731	731	737	737	731	723	714	707	704	709	713	729	727	733	738	737	742	741	740	734	729
Quiet		731	732	733	733	734	738	742	742	737	727	718	710	706	708	714	720	721	722	724	725	729	732	732	732	727
Dist.		745	730	729	717	716	718	733	729	727	721	719	711	705	729	729	790	745	749	760	747	740	744	745	725	733

September 2016 Vertical component Z in nT (Z = 49400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		694	682	653	673	683	684	696	708	724	726	720	726	734	752	780	761	742	735	742	737	661	628	625	561	701
2	D	577	531	578	661	672	665	701	710	718	719	723	729	748	772	797	776	785	787	746	740	723	629	630	679	700
3	D	677	650	655	652	655	693	711	721	728	741	742	747	767	799	766	785	780	768	751	698	632	661	654	593	709
4		614	653	712	720	723	722	730	733	735	742	749	770	761	795	765	753	749	748	724	735	697	692	695	691	725
5		697	713	719	725	724	724	737	733	733	737	736	733	731	734	737	741	757	769	756	714	681	705	714	711	727
6		724	730	728	723	733	736	733	737	741	736	734	737	745	743	739	741	744	742	737	730	682	716	725	715	731
7		700	716	719	716	722	725	730	729	726	725	727	732	744	741	742	768	772	761	748	741	735	732	729	723	733
8		697	696	704	710	709	716	720	726	729	730	738	748	744	750	759	770	769	760	743	730	733	730	724	728	732
9		728	727	730	731	730	732	731	729	727	725	721	721	724	728	732	734	736	735	733	732	731	729	728	717	729
10	Q	715	721	723	725	724	727	725	724	724	725	727	727	728	733	734	733	731	730	730	730	729	725	719	702	726
11	Q	715	722	726	728	729	731	730	726	723	721	722	724	729	733	741	749	745	741	737	735	735	729	725	724	730
12		720	721	724	726	726	726	728	728	725	722	719	718	721	724	726	728	728	728	728	728	728	727	718	712	724
13		718	713	713	716	717	720	724	726	724	723	721	724	728	734	737	735	734	732	731	730	730	723	717	713	724
14		716	718	720	722	727	726	727	725	721	721	721	723	731	738	741	745	748	745	742	700	696	715	705	700	724
15		690	692	699	705	703	705	710	715	718	721	726	726	730	736	735	736	734	734	732	730	730	730	724	727	720
16	Q	728	728	728	729	731	731	728	725	723	719	715	716	720	723	725	728	729	730	730	731	731	730	728	729	726
17	Q	727	725	724	725	727	729	728	725	721	716	713	714	718	721	723	724	723	724	725	725	726	726	723	723	723
18		724	722	723	725	725	726	723	721	718	718	720	719	719	727	740	757	748	743	742	738	734	731	723	726	729
19		726	723	725	726	727	726	722	719	720	721	721	728	733	748	761	766	761	741	732	729	730	727	732	731	732
20		725	689	659	700	717	726	727	728	726	725	732	732	728	730	731	731	735	740	734	733	724	715	724	726	722
21		694	676	709	717	720	725	729	733	731	728	730	730	732	731	732	729	728	728	728	728	727	727	724	718	723
22		715	717	722	723	724	726	728	728	727	725	725	725	726	727	728	728	728	728	727	728	728	727	727	727	725
23	Q	727	726	726	726	726	728	728	727	722	717	715	720	722	724	725	726	726	725	725	725	725	725	725	725	724
24		725	724	724	724	725	725	722	719	717	718	717	717	720	724	724	726	725	725	726	732	739	735	721	726	724
25		715	694	681	690	693	710	721	724	722	716	713	725	723	725	728	729	729	733	749	750	699	713	714	629	714
26		649	679	696	711	720	718	722	726	727	721	716	723	741	766	767	792	781	783	768	739	708	714	732	665	728
27	D	615	591	618	689	713	728	730	726	732	744	764	747	748	766	800	815	754	747	755	728	716	721	692	659	721
28	D	646	674	656	659	707	718	728	736	740	738	746	758	755	787	768	804	787	781	695	689	563	634	691	704	715
29	D	728	724	693	676	679	708	728	741	746	758	792	779	785	831	827	830	768	757	722	718	732	720	703	689	743
30		686	687	718	718	730	734	734	740	737	738	747	745	746	746	753	754	752	752	717	717	710	698	702	689	727
All		697	695	700	709	715	720	724	726	727	727	730	732	736	746	749	753	748	745	735	727	710	710	710	699	724
Quiet		722	724	725	726	727	729	728	725	722	720	718	720	723	727	730	732	731	730	729	729	727	724	721	726	
Dist.		648	634	640	667	685	702	719	727	733	740	753	752	761	791	792	802	775	768	734	714	673	673	674	665	718

Nurmijarvi Finland

October 2016 North component X in nT (X = 14900 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		-119	-114	-109	-109	-133	-118	-115	-123	-133	-131	-130	-127	-119	-118	-112	-108	-101	-77	-115	-129	-111	-107	-108	-93	-115
2		-118	-106	-108	-107	-100	-101	-107	-113	-126	-137	-138	-129	-126	-132	-117	-112	-107	-107	-102	-111	-96	-129	-109	-107	-114
3		-105	-103	-102	-102	-103	-119	-124	-116	-124	-128	-130	-127	-118	-119	-106	-103	-91	-106	-92	-113	-116	-112	-105	-105	-111
4		-105	-105	-110	-101	-111	-107	-104	-116	-142	-158	-147	-125	-113	-125	-100	-102	-101	-106	-109	-89	-106	-112	-113	-108	-113
5		-109	-114	-116	-98	-100	-95	-103	-119	-121	-133	-132	-128	-121	-117	-113	-109	-104	-105	-102	-95	-102	-98	-92	-104	-110
6		-104	-106	-106	-103	-100	-99	-102	-110	-119	-127	-128	-124	-117	-109	-104	-98	-107	-115	-110	-103	-100	-93	-98	-100	-107
7		-105	-113	-101	-106	-103	-99	-101	-111	-124	-131	-131	-124	-115	-109	-107	-108	-107	-109	-112	-112	-99	-100	-99	-101	-109
8		-103	-100	-98	-97	-99	-101	-102	-108	-119	-129	-135	-130	-126	-119	-110	-106	-105	-106	-109	-105	-101	-93	-98	-102	-108
9	Q	-97	-103	-103	-100	-94	-93	-101	-110	-120	-126	-126	-123	-119	-115	-120	-113	-109	-102	-99	-98	-100	-97	-95	-99	-107
10		-98	-105	-95	-96	-97	-92	-99	-111	-123	-124	-124	-125	-120	-118	-114	-111	-112	-117	-122	-110	-103	-101	-100	-102	-109
11	Q	-102	-103	-101	-99	-97	-96	-99	-107	-113	-120	-126	-121	-114	-109	-103	-102	-99	-97	-96	-95	-96	-96	-98	-99	-104
12		-97	-97	-100	-97	-96	-96	-100	-107	-118	-125	-125	-123	-115	-106	-101	-100	-100	-99	-99	-92	-94	-82	-89	-102	
13	D	-93	-96	-89	-92	-94	-88	-94	-133	-142	-141	-123	-122	-105	-101	-105	-21	4	-35	-183	-233	-236	-241	-253	-225	-127
14		-151	-229	-156	-145	-132	-133	-143	-133	-142	-133	-131	-127	-126	-127	-120	-123	-123	-109	-106	-103	-99	-103	-103	-103	-129
15		-104	-112	-114	-100	-104	-106	-109	-117	-127	-129	-126	-120	-118	-108	-108	-106	-100	-112	-111	-109	-113	-109	-109	-108	-112
16		-104	-110	-107	-109	-105	-106	-111	-115	-124	-140	-127	-113	-112	-103	-115	-111	-105	-104	-77	-103	-120	-87	-106	-105	-109
17		-114	-109	-106	-106	-111	-118	-123	-133	-148	-128	-126	-112	-111	-108	-113	-115	-104	-108	-109	-92	-85	-118	-133	-118	-114
18		-110	-110	-113	-115	-113	-112	-117	-134	-134	-133	-126	-113	-106	-102	-108	-111	-106	-107	-105	-102	-103	-99	-109	-108	-112
19		-102	-102	-102	-105	-103	-104	-103	-114	-124	-126	-127	-121	-108	-106	-106	-107	-110	-104	-103	-101	-97	-102	-103	-103	-108
20	Q	-102	-104	-105	-103	-101	-101	-103	-111	-122	-127	-122	-115	-110	-106	-103	-101	-100	-99	-98	-100	-94	-97	-97	-98	-105
21	Q	-98	-99	-99	-99	-98	-98	-103	-112	-121	-123	-120	-115	-110	-104	-101	-100	-99	-98	-97	-97	-97	-97	-96	-98	-103
22	Q	-101	-101	-96	-96	-95	-93	-97	-103	-111	-112	-114	-109	-102	-102	-104	-113	-102	-97	-99	-94	-98	-93	-94	-97	-101
23		-97	-99	-98	-95	-92	-86	-92	-107	-116	-118	-120	-120	-118	-118	-114	-112	-108	-101	-98	-110	-105	-101	-113	-107	-106
24		-105	-117	-113	-91	-104	-102	-105	-116	-116	-117	-119	-107	-118	-135	-123	-119	-140	-128	-111	-112	-114	-120	-129	-150	-117
25	D	-125	-126	-157	-82	-110	-106	-105	-111	-130	-125	-130	-128	-105	37	-129	-139	-138	-82	-150	-159	-147	-216	-231	-106	-125
26	D	-136	-135	-160	-150	-118	-118	-128	-129	-137	-129	-158	-124	-119	-121	-149	-136	-147	-123	-147	-172	-177	-129	-129	-162	-139
27	D	-144	-112	-136	-140	-115	-113	-126	-121	-139	-142	-142	-132	-127	-123	-126	-133	-117	-139	-138	-130	-113	-120	-145	-137	-130
28		-121	-127	-125	-120	-116	-112	-113	-130	-144	-142	-135	-130	-123	-112	-118	-112	-122	-103	-114	-111	-123	-146	-165	-157	-126
29	D	-134	-138	-97	-124	-122	-123	-134	-137	-134	-128	-141	-140	-115	-105	-121	-126	-129	-128	-139	-142	-128	-118	-121	-122	-127
30		-116	-129	-144	-110	-118	-107	-114	-123	-138	-134	-131	-134	-134	-125	-127	-118	-118	-134	-128	-117	-103	-117	-112	-114	-123
31		-115	-121	-111	-103	-101	-113	-107	-113	-122	-124	-122	-115	-115	-115	-113	-116	-122	-118	-104	-114	-111	-110	-110	-114	-114
All		-111	-114	-112	-106	-106	-105	-109	-117	-128	-130	-129	-123	-116	-109	-113	-109	-107	-106	-112	-115	-112	-115	-118	-114	-114
Quiet		-100	-102	-101	-99	-97	-96	-101	-109	-118	-122	-121	-116	-111	-107	-106	-106	-102	-98	-98	-97	-97	-96	-96	-98	-104
Dist.		-126	-122	-128	-118	-112	-109	-117	-126	-137	-133	-139	-129	-114	-83	-126	-111	-106	-101	-151	-167	-160	-165	-176	-150	-129

October 2016 East component Y in nT (Y = 1400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		727	727	736	741	728	720	733	736	742	725	722	724	721	720	729	729	740	778	810	770	741	735	733	718	737
2		722	726	749	736	728	724	735	734	732	721	716	714	713	742	718	724	729	759	736	744	778	763	730	732	734
3		731	733	735	734	733	730	713	724	729	729	722	718	711	721	725	729	753	733	760	741	743	729	734	734	731
4		748	751	748	751	728	706	731	729	727	731	720	716	718	717	718	721	725	723	734	779	746	747	746	711	732
5		734	741	730	710	726	729	733	738	736	739	725	718	710	715	717	731	728	724	726	745	733	732	732	737	729
6		726	730	729	732	733	735	737	743	741	736	727	721	716	715	719	722	730	732	734	739	736	735	740	732	731
7		731	723	731	731	733	738	743	744	742	732	723	714	708	710	717	726	725	722	733	738	738	733	736	735	729
8		728	714	724	726	730	714	724	737	745	737	732	722	714	716	721	726	729	735	742	735	738	736	737	731	729
9	Q	733	737	733	732	733	734	739	740	742	731	715	707	709	710	724	718	725	729	730	750	736	731	729	736	729
10		726	718	739	735	734	737	744	742	746	737	722	711	703	702	711	723	724	740	774	747	750	741	733	733	732
11	Q	732	732	731	732	734	738	744	749	745	734	724	714	711	714	719	723	725	726	728	728	730	730	731	731	729
12		734	736	733	732	732	734	740	747	747	739	724	715	711	714	721	725	726	728	730	731	735	734	722	734	730
13	D	739	737	738	739	741	741	733	740	735	722	711	711	717	719	727	728	655	682	763	852	803	830	907	749	
14		756	640	703	688	714	722	709	727	731	734	744	728	729	735	736	734	734	734	731	730	729	734	733	736	725
15		737	743	736	742	742	740	740	741	735	718	712	708	717	714	727	729	716	729	726	728	746	745	752	729	731
16		743	747	744	737	734	733	735	733	730	725	714	711	712	704	719	733	726	724	819	776	749	733	728	747	736
17		742	733	735	740	742	728	732	733	725	721	709	723	722	722	719	729	757	750	739	728	768	760	734	704	733
18		738	735	734	730	723	728	727	728	725	720	710	713	711	717	723	724	728	733	735	738	742	738	737	728	728
19		724	738	736	735	733	734	735	739	737	734	725	722	719	721	727	728	727	727	729	736	739	740	735	733	731
20	Q	733	735	733	735	737	737	740	744	741	734	723	717	717	721	725	725	727	728	728	732	740	736	734	733	731
21	Q	733	733	733	733	732	734	739	742	737	728	721	717	717	722	726	727	728	729	730	731	732	733	734	734	730
22	Q	736	733	735	737	736	737	739	740	736	727	718	715	716	718	721	726	729	728	727	746	738	752	739	737	732
23		732	734	731	732	733	734	739	738	738	729	720	715	715	719	727	725	725	747	754	745	741	741	729	741	733
24		749	746	719	751	741	728	735	732	724	714	709	707	712	706	721	705	732	738	728	731	750	757	781	752	732
25	D	743	745	713	737	749	731	722	722	726	718	704	721	689	770	738	706	737	959	786	809	769	728	737	772	747
26	D	763	737	727	690	694	711	729	737	740	742	768	741	730	727	774	785	796	826	755	759	736	785	755	728	747
27	D	709	747	739	706	710	730	735	743	740	738	737	736	718	731	739	768	788	791	754	754	797	784	789	755	747
28		745	738	735	738	735	737	734	735	726	725	723	721	719	736	737	741	741	747	735	762	765	793	790	763	743
29	D	786	763	699	744	718	720	705	713	728	724	720	724	722	747	734	725	753	754	756	779	777	771	748	734	739
30		733	731	700	721	727	739	746	741	734	730	724	731	722	738	761	730	732	764	763	756	752	750	733	729	737
31		726	710	721	733	733	734	734	732	730	730	727	721	721	734	735	746	743	739	743	749	746	741	743	737	734
All		737	732	730	731	730	730	733	736	735	729	722	719	715	722	727	729	733	747	746	751	749	747	744	741	734
Quiet		733	734	733	734	734	736	740	743	740	731	720	714	714	717	723	724	727	728	728	737	735	736	733	734	730
Dist.		748	745	723	723	722	726	725	731	734	729	728	727	715	739	742	742	746	802	763	791	776	774	772	779	746

October 2016 Vertical component Z in nT (Z = 49400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		705	724	733	731	723	727	733	735	735	736	738	747	749	748	752	745	743	737	698	709	726	733	722	690	730
2		694	713	715	726	726	726	732	733	736	739	743	745	755	781	754	746	744	746	739	733	678	692	714	719	730
3		725	731	732	731	732	732	732	731	731	730	731	733	740	744	749	747	751	735	741	706	731	719	703	709	731
4		671	644	629	664	679	700	712	723	729	742	751	767	778	769	746	740	742	740	743	723	723	724	704	696	718
5		699	714	698	695	710	722	727	734	739	740	741	740	740	746	749	749	741	741	739	737	732	731	718	716	729
6		723	718	726	730	733	734	735	734	733	733	731	729	730	732	735	739	747	754	751	739	732	727	727	729	733
7		725	719	721	728	732	736	737	739	737	735	732	730	731	735	742	749	746	747	751	747	735	731	729	730	735
8		729	718	721	727	728	729	730	730	729	730	730	728	734	741	742	740	740	742	741	737	735	717	716	721	731
9	Q	714	719	724	728	730	733	736	738	739	734	730	733	738	745	752	745	744	740	738	736	732	733	729	726	734
10		721	717	710	720	722	727	726	727	727	725	724	731	737	744	747	750	764	765	754	688	723	733	735	735	731
11	Q	734	734	733	733	733	734	734	734	731	728	729	730	732	735	736	734	733	733	733	732	733	732	732	731	733
12		730	729	730	731	731	732	734	734	730	726	724	726	730	734	734	734	734	734	733	732	725	720	720	730	
13	D	725	728	728	727	726	726	724	728	738	734	743	773	785	827	832	900	850	884	799	685	626	645	641	605	745
14		625	549	591	667	710	728	739	748	748	751	755	751	751	750	749	748	745	742	741	740	740	743	742	741	721
15		739	737	733	730	731	732	734	735	734	733	737	743	743	745	745	741	742	754	746	745	750	747	734	714	739
16		716	728	734	735	735	736	737	736	733	730	731	734	738	750	750	755	743	743	748	698	722	666	692	717	729
17		719	709	711	722	727	727	732	735	738	736	745	757	747	743	746	747	758	736	734	686	699	701	716	714	728
18		715	728	728	721	726	728	734	736	739	733	734	736	738	743	743	742	741	741	740	738	736	724	719	719	733
19		717	728	729	732	733	736	738	737	736	735	735	735	739	740	739	739	740	741	741	740	734	735	736	736	735
20	Q	735	734	733	734	735	736	738	738	737	734	734	734	736	739	737	736	735	735	736	738	733	733	733	734	735
21	Q	734	733	733	733	734	735	737	738	735	732	733	736	739	739	737	735	735	735	734	734	734	734	733	732	735
22	Q	733	732	730	731	731	731	732	731	728	729	730	733	735	738	738	743	739	736	736	734	732	731	729	726	733
23		731	731	732	731	731	730	730	730	729	729	729	733	738	743	744	742	742	745	728	728	730	723	700	686	730
24		698	705	708	707	712	721	725	730	731	731	733	740	747	773	759	777	816	790	757	749	747	726	703	663	735
25	D	664	638	653	688	710	723	724	726	730	733	734	765	797	996	865	802	808	837	700	721	730	587	510	638	728
26	D	688	725	698	702	716	724	742	752	750	753	785	766	756	764	815	844	842	743	772	739	668	703	706	684	743
27	D	658	684	698	702	721	733	742	754	752	759	770	781	785	799	782	795	761	761	751	748	744	703	688	705	741
28		713	730	736	736	737	742	742	742	748	744	750	753	758	770	766	762	762	747	747	746	709	691	675	663	736
29	D	656	629	600	625	699	710	732	729	741	746	757	749	765	797	801	770	771	772	763	747	721	731	731	729	728
30		733	731	700	700	713	730	737	740	748	748	754	767	780	812	802	760	757	767	755	741	704	708	721	724	743
31		724	717	722	728	730	734	736	737	741	747	745	746	749	750	748	753	749	750	741	741	741	739	736	737	739
All		709	709	709	716	724	729	733	735	737	737	740	744	749	764	759	758	757	754	743	730	723	715	709	709	733
Quiet		730	730	731	732	733	734	736	736	734	731	731	733	736	739	740	738	737	736	735	735	733	733	731	730	734
Dist.		678	681	675	689	714	723	733	738	742	745	758	767	778	837	819	822	806	799	757	728	698	674	655	672	737

Nurmijarvi Finland

November 2016 North component X in nT (X = 14900 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		-113	-117	-113	-104	-105	-105	-102	-106	-119	-124	-126	-130	-120	-128	-145	-133	-121	-112	-107	-104	-106	-104	-106	-116	-115
2		-129	-119	-109	-110	-108	-109	-107	-106	-109	-115	-117	-109	-117	-128	-124	-121	-118	-121	-118	-109	-109	-112	-140	-141	-117
3	D	-117	-115	-115	-107	-104	-103	-112	-120	-135	-137	-131	-130	-123	-121	-122	-128	-123	-129	-129	-127	-121	-120	-105	-91	-119
4		-111	-122	-114	-113	-107	-101	-103	-110	-116	-124	-122	-115	-111	-108	-107	-107	-105	-104	-104	-105	-104	-108	-106	-106	-110
5	Q	-104	-106	-104	-104	-102	-99	-98	-105	-112	-113	-112	-114	-108	-104	-102	-102	-101	-100	-100	-100	-100	-100	-100	-101	-104
6		-99	-100	-102	-99	-94	-93	-94	-103	-114	-118	-119	-115	-117	-109	-107	-109	-106	-106	-109	-110	-103	-100	-108	-106	-106
7		-101	-103	-102	-99	-97	-96	-95	-98	-111	-120	-116	-111	-105	-100	-99	-101	-100	-99	-100	-99	-99	-100	-101	-101	-102
8	Q	-102	-104	-104	-102	-99	-98	-98	-105	-113	-116	-114	-112	-109	-109	-113	-104	-100	-99	-98	-97	-98	-99	-99	-98	-104
9		-103	-103	-100	-99	-97	-96	-94	-91	-96	-108	-116	-119	-112	-109	-110	-110	-99	-99	-99	-92	-86	-105	-101	-101	-102
10		-103	-103	-101	-95	-96	-94	-97	-101	-108	-115	-121	-120	-116	-105	-101	-48	-61	-89	-128	-122	-124	-130	-132	-119	-105
11		-137	-129	-118	-113	-112	-114	-115	-115	-116	-113	-117	-113	-109	-105	-105	-103	-102	-110	-104	-105	-103	-107	-103	-94	-111
12	D	-104	-107	-105	-103	-105	-112	-100	-98	-103	-111	-111	-121	-124	-111	-111	-120	-114	-107	-118	-125	-123				(-111)
13	D																									(-14900)
14										-122	-132	-129	-120	-111	-107	-117	-105	-106	-112	-98	-103	-107	-109	-100	-104	(-111)
15		-114	-114	-110	-107	-105	-105	-106	-111	-114	-115	-118	-116	-108	-119	-115	-105	-103	-100	-99	-100	-104	-104	-104	-105	-108
16		-102	-105	-107	-106	-105	-101	-102	-107	-111	-111	-106	-103	-100	-100	-100	-99	-98	-98	-100	-107	-96	-109	-111	-111	-104
17		-103	-106	-103	-101	-102	-102	-104	-108	-112	-111	-108	-105	-103	-101	-100	-103	-104	-106	-108	-105	-103	-104	-104	-104	-104
18		-107	-105	-109	-103	-102	-103	-103	-105	-109	-113	-111	-107	-102	-100	-100	-100	-103	-103	-104	-100	-99	-101	-100	-102	-104
19	Q	-102	-102	-102	-102	-101	-100	-100	-101	-103	-101	-99	-97	-98	-97	-96	-97	-96	-99	-101	-100	-103	-101	-102	-97	-100
20	Q	-98	-100	-100	-100	-98	-95	-95	-94	-94	-95	-96	-96	-98	-101	-106	-105	-102	-97	-96	-96	-98	-98	-99	-102	-98
21		-105	-104	-101	-100	-100	-99	-94	-94	-98	-98	-100	-95	-98	-98	-97	-96	-98	-109	-117	-122	-120	-108	-103	-104	-102
22		-103	-102	-102	-97	-96	-96	-95	-100	-104	-113	-105	-102	-96	-102	-113	-114	-115	-136	-127	-116	-109	-107	-116	-118	-108
23		-108	-95	-122	-100	-98	-100	-110	-120	-114	-111	-107	-110	-114	-111	-116										(-109)
24	D								-111	-114	-124	-118	-128	-125	-120	-142	-144	-140	-132	-154	-130	-125	-122	-141	-147	(-130)
25	D	-146	-118	-117	-120	-114	-154	-158	-114	-119	-124	-121	-115	-152	-118	-128	-134	-132	-135	-130	-105	-131	-122	-117	-111	-126
26		-117	-124	-123	-117	-110	-109	-110	-116	-120	-126	-122	-118	-113	-106	-106	-121	-116	-128	-120	-119	-110	-110	-115	-113	-116
27		-111	-115	-114	-111	-107	-103	-108	-116	-113	-116	-124	-117	-116	-119	-112	-117	-116	-115	-97	-111	-111	-107	-115	-106	-112
28		-108	-110	-108	-104	-104	-102	-100	-102	-111	-108	-105	-104	-111	-104	-104	-105	-115	-113	-111	-110	-102	-113	-120	-104	-107
29		-110	-108	-107	-105	-104	-105	-104	-103	-105	-108	-110	-112	-113	-113	-106	-105	-104	-105	-106	-106	-110	-98	-104	-107	-107
30	Q	-109	-110	-107	-105	-100	-99	-98	-102	-105	-109	-106	-105	-103	-103	-105	-104	-106	-108	-109	-106	-107	-104	-101	-102	-105
All		-110	-109	-108	-105	-103	-103	-104	-106	-111	-115	-114	-112	-111	-109	-111	-108	-107	-110	-110	-108	-108	-107	-109	-108	-109
Quiet		-103	-104	-103	-103	-100	-98	-98	-102	-105	-107	-105	-105	-103	-103	-104	-102	-101	-101	-101	-100	-101	-101	-100	-100	-102
Dist.		-122	-113	-112	-110	-108	-123	-123	-111	-118	-124	-120	-124	-131	-118	-126	-131	-127	-126	-133	-122	-125	-121	-121	-116	-121

November 2016 East component Y in nT (Y = 1400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		736	729	726	731	738	739	742	742	738	730	718	724	722	729	737	729	739	736	733	735	738	737	749	740	734
2		772	708	743	744	740	739	738	739	731	723	727	716	714	725	732	706	732	733	740	736	737	754	769	719	734
3	D	770	749	736	737	733	728	729	730	728	730	727	730	723	731	753	733	736	741	752	749	765	762	754	736	740
4		763	748	738	732	736	734	730	729	725	727	726	723	725	731	733	731	732	733	734	736	740	738	737	734	734
5	Q	735	736	735	735	733	733	734	738	739	737	730	726	725	727	730	732	732	733	734	735	736	736	736	734	733
6		732	735	735	733	735	737	740	742	739	733	727	720	722	725	728	732	734	734	737	744	754	760	745	738	736
7		724	730	731	732	734	734	737	740	739	736	728	723	724	727	729	731	732	733	734	735	736	737	737	737	733
8	Q	736	736	735	734	734	734	735	737	734	728	721	717	718	716	718	729	733	733	734	735	736	740	736	740	731
9		735	734	734	733	733	733	734	733	730	729	724	717	706	705	712	724	725	727	729	765	773	762	742	737	732
10		740	737	733	731	733	734	730	731	730	726	715	718	711	687	687	669	717	763	763	754	783	765	760	752	732
11		768	743	730	732	733	732	733	734	733	726	729	724	721	727	728	722	720	725	729	741	739	744	750	757	734
12	D	750	759	744	741	740	740	736	737	735	731	720	722	732	726	726	744	724	764	765	767	760				(741)
13	D																									(-1400)
14										738	738	730	726	723	723	745	725	744	733	739	741	742	749	739	752	(737)
15		754	738	730	738	741	742	741	742	739	732	728	729	724	734	733	732	730	736	739	740	741	741	742	740	737
16		738	739	737	739	737	737	737	738	738	732	725	723	725	728	730	730	733	734	733	751	750	746	748	742	736
17		747	744	737	736	736	736	737	738	736	732	729	727	727	728	730	731	727	732	735	743	741	741	740	740	735
18		739	744	744	740	738	738	739	739	737	731	725	723	725	727	728	730	742	743	732	735	738	740	741	741	736
19	Q	738	737	736	736	735	735	736	737	737	732	727	724	722	725	725	725	727	729	736	737	739	744	739	736	733
20	Q	736	735	734	734	733	733	734	733	731	726	721	721	723	725	726	726	730	732	733	735	737	743	756	749	733
21		741	737	734	735	737	738	738	736	733	728	722	719	721	719	725	728	729	732	737	746	755	763	748	736	735
22		735	736	731	731	738	737	737	738	735	732	720	720	722	723	724	725	728	767	750	743	743	798	754	742	738
23		748	744	742	722	739	733	732	730	728	725	723	727	728	728	723										(731)
24	D								738	737	723	730	733	719	736	772	719	758	745	806	757	761	822	774	776	(753)
25	D	744	763	747	739	742	703	683	727	728	740	742	733	745	739	740	757	797	790	752	790	779	757	744	731	746
26		742	730	728	725	734	733	730	737	735	742	738	730	729	733	735	744	780	772	775	755	750	745	747	738	742
27		734	730	731	722	723	730	736	733	730	726	728	725	730	743	741	737	743	747	755	753	749	750	743	720	736
28		741	733	731	732	735	735	737	737	734	728	724	723	733	733	735	736	750	775	749	746	762	754	739	736	739
29		739	740	739	738	738	739	741	739	739	737	733	733	733	727	731	734	737	738	741	755	753	744	748	743	739
30	Q	742	737	739	738	739	736	737	737	733	732	729	727	728	732	734	735	734	740	736	741	741	739	738	736	736
All		744	738	736	734	736	734	734	736	734	731	726	724	724	726	731	728	737	743	744	746	749	752	746	740	736
Quiet		737	736	736	735	735	734	735	737	735	731	726	723	723	725	727	729	731	734	735	737	738	741	741	739	733
Dist.		755	757	742	739	738	724	716	733	732	731	730	729	729	733	748	738	754	760	769	766	766	780	757	748	745

November 2016 Vertical component Z in nT (Z = 49400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		736	738	739	739	740	742	745	745	744	746	749	759	769	781	793	777	765	758	749	745	744	743	735	718	750
2		680	676	719	735	737	739	740	739	737	737	738	744	755	779	796	775	779	774	769	752	746	745	716	657	740
3	D	711	722	711	709	716	721	732	743	746	769	765	775	765	765	773	772	769	777	773	762	752	738	716	691	745
4		700	714	726	735	740	738	739	742	741	740	737	739	741	744	746	744	743	743	743	743	742	741	741	740	738
5	Q	738	739	739	739	739	739	742	745	745	742	739	739	740	741	741	741	741	740	740	740	740	739	739	738	740
6		735	733	736	737	737	737	738	740	740	740	738	739	740	743	743	744	744	744	745	745	742	732	733	733	739
7		723	726	733	735	736	736	737	737	737	736	734	737	740	740	739	738	739	739	738	738	738	738	737	736	736
8	Q	735	735	736	737	737	737	737	738	739	737	738	742	745	745	746	744	741	740	739	738	738	737	737	732	739
9		735	736	736	736	735	734	733	730	728	730	735	741	743	745	749	752	747	744	745	746	713	720	733	736	737
10		737	736	736	736	737	737	736	737	739	739	739	746	752	766	795	945	983	924	820	799	778	753	739	690	775
11		680	683	731	743	744	743	743	744	743	744	743	741	744	744	744	744	748	757	753	758	752	746	741	710	738
12	D	704	720	735	736	736	735	737	738	737	735	737	748	760	749	750	761	759	771	745	761	749				(743)
13	D																									(-49400)
14										741	742	741	741	745	747	754	748	756	748	746	740	744	743	724	717	(742)
15		728	735	729	728	735	739	740	741	740	739	739	740	743	749	750	747	744	743	742	739	741	741	739	739	740
16		736	734	736	737	739	739	739	739	738	737	736	737	739	740	740	740	740	740	741	745	733	736	737	730	738
17		731	736	738	738	738	738	739	739	739	736	734	734	736	738	739	740	742	745	747	747	743	741	739	740	739
18		735	731	735	737	738	739	738	737	736	735	736	738	739	739	739	740	742	740	743	742	741	740	738	737	738
19	Q	737	737	737	737	737	737	738	738	736	734	732	731	734	736	737	737	737	739	741	742	741	741	738	737	737
20	Q	736	735	735	735	735	735	734	733	732	733	733	734	735	737	738	739	740	738	738	737	737	734	727	728	735
21		730	733	734	735	735	737	736	735	734	734	734	734	735	736	736	736	737	743	753	756	744	713	731	737	736
22		738	737	734	733	734	735	734	734	734	734	734	734	736	738	742	746	752	769	756	749	735	680	710	723	736
23		710	694	688	702	723	729	734	738	739	737	738	741	744	747	747										(727)
24	D								738	739	740	746	753	773	837	844	803	791	772	773	747	733	716	697	684	(758)
25	D	626	688	710	727	732	720	734	740	743	744	749	752	774	765	760	768	770	758	758	737	716	732	729	732	736
26		729	729	734	729	737	743	746	747	749	752	753	751	750	749	746	752	757	755	757	750	737	727	725	728	743
27		736	737	737	731	734	737	741	740	740	741	745	747	750	752	750	750	751	751	742	740	741	737	730	715	741
28		727	734	738	740	740	742	742	739	737	738	739	742	745	745	744	744	748	750	747	745	734	721	719	722	738
29		728	736	738	738	740	740	740	739	736	734	736	740	743	745	745	744	743	742	743	747	739	731	719	729	738
30	Q	736	738	739	739	740	739	738	738	738	738	737	737	740	742	741	742	742	743	743	743	741	740	738	738	740
All		721	726	731	733	736	737	738	739	739	739	740	743	747	751	754	757	759	757	751	748	740	733	730	723	740
Quiet		737	737	737	737	738	737	738	738	738	737	736	737	739	740	741	741	740	740	740	740	739	738	736	735	738
Dist.		680	710	718	724	728	726	735	740	742	747	749	757	768	779	782	776	772	769	762	752	737	729	714	702	742

Nurmijarvi Finland

December 2016 North component X in nT (X = 14900 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		-100	-100	-99	-96	-94	-96	-97	-95	-98	-101	-103	-102	-102	-101	-101	-100	-99	-98	-98	-98	-98	-99	-99	-100	-99
2		-101	-104	-106	-105	-102	-101	-100	-101	-101	-102	-102	-103	-102	-106	-110	-117	-116	-108	-106	-106	-99	-110	-109	-107	-105
3	Q	-107	-105	-104	-103	-102	-103	-104	-102	-99	-100	-101	-103	-103	-101	-102	-103	-103	-105	-104	-99	-102	-101	-102	-103	-103
4	Q	-103	-102	-102	-101	-100	-100	-99	-100	-100	-99	-97	-97	-97	-99	-98	-96	-95	-93	-94	-98	-98	-100	-101	-103	-99
5		-106	-99	-96	-95	-100	-100	-101	-100	-100	-100	-102	-101	-96	-94	-95	-96	-99	-105	-104	-100	-102	-103	-103	-105	-100
6		-103	-103	-102	-98	-96	-96	-96	-97	-97	-99	-97	-93	-108	-125	-130	-115	-101	-103	-108	-113	-112	-109	-115	-109	-105
7		-110	-108	-106	-103	-101	-99	-99	-111	-120	-111	-109	-109	-107	-106	-107	-116	-120	-125	-115	-109	-123	-117	-116	-117	-111
8	D	-127	-102	-96	-97	-109	-100	-110	-107	-107	-106	-119	-119	-113	-112	-110	-142	-115	-119	-116	-120	-121	-118	-126	-116	-114
9	D	-132	-123	-114	-109	-108	-107	-107	-118	-120	-107	-105	-124	-109	-106	-102	-106	-103	-121	-125	-118	-137	-130	-141	-126	-117
10		-120	-127	-125	-111	-112	-111	-110	-109	-113	-122	-106	-106	-118	-120	-119	-120	-105	-107	-106	-113	-120	-122	-117	-114	-115
11		-126	-112	-108	-103	-118	-111	-100	-102	-106	-113	-124	-116	-116	-109	-113	-126	-102	-112	-93	-93	-116	-112	-109	-107	-110
12		-110	-108	-108	-112	-108	-103	-104	-104	-101	-100	-103	-104	-104	-104	-105	-104	-103	-103	-104	-106	-107	-107	-102	-106	-105
13		-113	-114	-111	-108	-104	-104	-105	-106	-105	-106	-106	-107	-103	-103	-104	-102	-104	-104	-105	-106	-108	-101	-109	-111	-106
14		-111	-110	-107	-106	-107	-103	-105	-104	-102	-102	-103	-107	-105	-101	-99	-101	-100	-102	-104	-107	-107	-106	-108	-107	-105
15	Q	-107	-108	-109	-108	-107	-104	-103	-101	-99	-99	-101	-101	-100	-100	-100	-102	-102	-104	-107	-108	-106	-107	-105	-105	-104
16	Q	-104	-104	-104	-105	-103	-102	-102	-102	-102	-100	-99	-99	-98	-99	-100	-100	-101	-102	-103	-103	-103	-96	-103	-105	-102
17		-107	-106	-104	-104	-104	-105	-104	-101	-99	-97	-92	-93	-96	-99	-102	-102	-107	-111	-102	-109	-106	-103	-101	-111	-103
18		-104	-114	-116	-104	-99	-91	-95	-100	-104	-108	-109	-105	-106	-114	-116	-106	-115	-114	-117	-114	-112	-110	-108	-100	-108
19		-106	-107	-105	-104	-104	-101	-107	-107	-109	-112	-110	-106	-107	-114	-118	-122	-123	-116	-112	-100	-108	-105	-108	-109	-109
20		-112	-110	-105	-103	-103	-100	-101	-108	-110	-112	-110	-106	-107	-106	-108	-122	-127	-123	-106	-103	-104	-107	-95	-116	-109
21	D	-115	-110	-109	-103	-99	-96	-97	-102	-104	-103	-112	-114	-115	-120	-132	-114	-127	-147	-132	-146	-146	-134	-139	-141	-119
22	D	-127	-142	-127	-125	-106	-115	-116	-119	-129	-126	-128	-120	-125	-120	-121	-137	-138	-129	-111	-119	-139	-133	-126	-120	-125
23		-127	-126	-120	-125	-128	-114	-110	-109	-122	-128	-136	-130	-125	-124	-123	-126	-129	-127	-121	-145	-169	-159	-126	-124	-128
24		-124	-118	-119	-116	-109	-108	-111	-118	-123		-116	-111	-108	-125	-111	-114	-117	-96	-124	-117	-108	-108	-111	-113	(-114)
25		-114	-110	-102	-104	-103	-101	-104	-106	-108	-116	-124	-128	-125	-118	-132	-122	-109	-131	-118	-120	-110	-103	-114	-120	-114
26	D	-128	-141	-129	-113	-105	-106	-112	-113	-122	-124	-123	-122	-116	-112	-124	-124	-124	-114	-106	-113	-116	-103	-106	-109	-117
27		-133	-121	-116	-118	-115	-112	-113	-115	-118	-122	-119	-112	-111	-113	-111	-115	-111	-111	-103	-103	-116	-109	-121	-116	-115
28		-111	-112	-112	-112	-108	-102	-103	-107	-112	-112	-114	-115	-109	-103	-106	-112	-116	-119	-110	-111	-107	-105	-105	-108	-110
29		-109	-112	-104	-104	-104	-102	-105	-106	-107	-109	-111	-109	-112	-113	-120	-126	-131	-128	-117	-111	-110	-110	-111	-110	-112
30	Q	-109	-108	-105	-107	-106	-105	-104	-104	-105	-106	-105	-108	-106	-105	-106	-104	-106	-110	-115	-114	-112	-111	-108	-102	-107
31		-106	-107	-104	-101	-100	-97	-91	-89	-95	-101	-101	-111	-110	-110	-118	-141	-136	-132	-140	-128	-133	-122	-113	-118	-113
All		-113	-112	-109	-107	-105	-103	-104	-105	-108	-108	-109	-109	-108	-109	-111	-114	-112	-113	-110	-111	-115	-112	-111	-112	-110
Quiet		-106	-105	-105	-105	-104	-103	-102	-102	-101	-101	-101	-102	-101	-101	-101	-101	-101	-102	-104	-104	-104	-103	-104	-104	-103
Dist.		-126	-124	-115	-109	-106	-105	-108	-112	-116	-113	-117	-120	-116	-114	-118	-125	-121	-126	-118	-123	-132	-124	-128	-123	-118

December 2016 East component Y in nT (Y = 1400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		739	738	735	735	737	733	738	739	741	739	734	731	731	733	736	737	737	737	738	740	740	740	740	740	737
2		740	740	739	738	738	737	734	733	733	734	735	734	733	733	736	737	736	736	739	741	757	751	745	744	738
3	Q	740	741	740	740	739	739	738	736	733	732	730	731	731	734	735	737	736	736	744	750	742	741	740	740	738
4	Q	739	739	738	738	739	739	738	736	734	733	732	732	734	736	736	737	737	738	737	737	739	740	742	740	737
5		734	735	749	740	739	739	738	736	733	732	731	729	729	732	732	733	733	740	740	743	746	744	744	742	737
6		741	742	738	740	739	739	738	737	732	733	731	722	733	710	722	738	741	741	741	743	759	754	762	749	739
7		744	741	740	737	736	734	737	738	735	720	722	722	729	733	730	733	725	733	741	788	758	750	761	751	739
8	D	749	738	761	756	740	728	740	737	736	731	734	731	722	735	733	757	734	742	766	762	737	726	768	729	741
9	D	735	727	742	745	743	740	739	736	725	730	721	727	732	724	725	732	731	730	789	806	762	732	799	777	744
10		751	746	730	739	749	744	742	737	734	735	735	731	731	741	746	743	771	753	758	772	778	757	751	743	747
11		721	734	743	744	721	730	741	735	739	736	741	727	737	736	732	739	760	739	762	743	746	747	747	746	739
12		756	751	747	739	737	737	734	733	735	737	737	734	737	739	740	740	740	740	740	743	744	749	749	743	741
13		745	744	748	745	743	742	741	740	738	739	735	734	735	736	739	739	741	741	742	742	747	757	746	747	742
14		743	741	742	743	741	742	740	738	735	737	734	738	741	740	740	739	740	739	745	749	742	741	744	744	741
15	Q	744	743	742	741	740	740	742	740	738	736	737	736	739	740	740	741	741	740	740	745	744	744	744	742	741
16	Q	739	741	741	742	739	739	740	738	736	737	738	737	739	741	741	740	740	739	743	741	742	748	741	740	740
17		742	740	741	740	741	739	737	734	732	732	731	733	735	735	738	735	733	740	755	747	752	744	740	755	740
18		750	760	755	755	750	743	738	734	738	738	735	734	731	737	747	741	740	744	751	761	748	750	749	750	745
19		745	744	742	745	740	740	740	736	737	737	733	731	728	730	730	730	736	745	749	752	749	744	743	742	739
20		742	738	742	742	740	742	742	741	738	733	729	729	731	740	740	743	745	744	744	743	743	745	774	763	742
21	D	734	749	742	740	737	734	734	736	735	728	727	731	736	745	758	776	870	756	750	788	802	756	777	778	755
22	D	754	758	711	734	740	726	734	731	738	735	742	741	737	758	759	762	774	752	827	785	777	763	755	740	752
23		737	729	731	740	740	747	738	739	743	741	757	743	757	767	740	741	794	775	780	785	813	779	760	746	755
24		729	732	738	743	744	742	744	744	749		739	742	741	768	757	736	744	793	773	751	759	751	747	740	(748)
25		738	735	720	751	742	738	740	743	736	736	736	737	757	734	767	744	804	775	760	753	750	752	766	766	749
26	D	750	725	723	726	730	731	742	743	740	741	735	733	731	749	754	787	762	747	755	751	754	769	754	765	746
27		755	731	736	742	747	744	745	747	746	744	741	740	740	756	749	745	745	750	757	758	753	758	762	735	747
28		741	743	744	744	742	742	740	740	742	741	739	740	740	741	742	745	751	755	745	747	749	749	745	745	744
29		746	738	733	741	745	743	741	742	741	741	743	739	738	738	746	749	743	747	749	746	748	747	749	747	743
30	Q	745	741	741	739	739	739	743	745	743	740	739	737	737	740	744	744	742	742	747	749	750	750	750	751	743
31		747	744	741	740	738	739	739	739	737	737	734	726	728	725	737	747	757	752	769	797	782	778	767	754	748
All		742	740	739	741	740	738	739	738	737	735	735	733	735	739	741	743	751	747	754	757	755	750	754	748	743
Quiet		741	741	740	740	739	739	740	739	737	736	735	735	736	738	739	740	739	739	742	744	743	745	743	743	740
Dist.		745	739	736	740	738	732	738	737	735	733	732	732	732	742	746	763	774	746	777	778	766	749	771	758	747

December 2016 Vertical component Z in nT (Z = 49400 nT + tabular values)

Day	Char	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1		742	741	741	741	741	740	740	738	736	737	737	738	741	743	743	743	743	743	743	743	743	742	742	742	741
2		742	743	743	743	743	741	740	739	740	739	740	740	743	744	746	749	752	749	748	748	745	741	742	742	743
3	Q	743	743	743	743	743	743	742	741	741	743	743	744	744	744	744	744	745	746	748	742	743	743	742	742	743
4	Q	742	742	742	741	741	741	740	739	739	739	739	740	741	742	743	743	742	742	741	742	741	741	741	740	741
5		739	736	737	738	739	740	740	740	741	741	742	743	745	743	743	743	743	748	746	744	743	741	741	740	742
6		741	740	740	739	739	738	738	736	735	736	737	739	745	774	771	761	751	746	746	746	743	727	725	737	743
7		740	743	743	742	741	739	738	740	744	743	744	746	747	749	752	756	765	790	769	765	749	755	750	749	750
8	D	716	705	713	720	731	739	744	742	742	742	743	747	752	756	760	795	764	761	760	754	702	676	702	706	736
9	D	724	735	746	748	746	746	742	742	746	746	745	751	755	750	750	754	752	765	818	769	763	684	691	741	746
10		746	741	725	717	736	741	744	746	747	750	749	746	753	759	763	762	757	755	743	753	747	748	745	733	746
11		719	733	740	737	733	731	736	736	737	741	746	748	751	751	753	764	763	753	751	725	747	749	747	741	743
12		733	739	739	742	746	747	745	744	744	743	744	746	747	746	746	746	746	746	747	747	747	746	740	736	744
13		741	745	747	747	745	745	744	743	743	743	743	747	748	748	748	747	746	746	746	746	747	743	742	744	745
14		744	744	745	745	746	745	744	743	743	741	740	744	747	747	746	746	745	746	748	748	747	746	746	745	745
15	Q	745	744	745	745	745	745	743	742	742	740	740	742	744	745	744	744	744	745	746	748	748	747	745	744	744
16	Q	743	743	743	744	744	744	744	743	743	743	744	743	744	744	744	744	744	745	745	745	745	744	741	744	744
17		744	744	744	743	744	743	743	742	742	745	745	743	743	743	744	745	747	753	751	749	748	724	711	723	742
18		721	718	737	739	738	736	736	739	743	744	744	744	747	751	754	751	754	756	758	752	749	746	745	740	744
19		739	740	742	743	743	742	743	743	746	749	749	747	748	751	754	758	762	761	756	743	745	745	745	746	747
20		746	745	746	745	745	745	744	746	747	748	749	748	750	750	750	756	764	764	754	749	747	745	727	720	747
21	D	723	737	744	744	741	741	742	743	744	745	746	750	759	770	791	848	817	801	759	770	744	702	720	707	754
22	D	733	729	694	714	740	741	749	749	756	763	767	765	767	771	767	773	772	768	771	741	743	727	699	718	747
23		735	740	733	734	749	750	755	754	757	765	773	774	776	771	765	772	771	770	748	730	699	683	723	726	748
24		730	733	730	744	750	748	751	752	757		758	758	757	766	759	757	761	759	758	755	749	737	738	747	(750)
25		749	745	729	726	738	741	744	745	746	749	751	762	775	771	777	772	776	765	745	760	747	740	730	733	751
26	D	727	700	712	729	740	742	748	752	754	755	756	763	764	768	768	772	775	757	754	759	757	750	722	705	747
27		717	717	731	744	748	752	751	751	749	750	752	755	757	761	755	756	754	755	752	744	745	743	739	733	746
28		741	747	749	750	751	750	750	749	749	750	749	751	753	753	752	753	755	756	754	753	752	746	746	745	750
29		746	743	737	740	743	746	746	746	745	747	750	751	751	753	757	761	771	774	764	757	754	752	751	750	752
30	Q	749	747	746	747	749	749	749	749	746	745	744	746	748	749	749	750	749	750	753	754	752	750	748	742	748
31		741	744	746	746	746	746	745	743	743	744	745	747	754	762	781	789	786	785	787	782	765	746	737	743	756
All		737	737	737	739	743	743	744	744	745	746	747	748	751	754	755	760	759	758	755	750	745	736	734	736	746
Quiet		744	744	744	744	744	744	744	743	742	742	742	743	744	745	745	745	745	746	747	746	746	745	744	742	744
Dist.		725	721	722	731	740	742	745	746	748	750	751	755	759	763	767	788	776	770	772	759	742	708	707	715	746

10 Hourly Means minus Monthly Means

10.1 All Days

North Component X in nT

Month/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
January	-5	-4	-1	4	6	7	7	4	-3	-7	-8	-6	-3	0	2	5	4	4	-1	-1	-2	-2	1	-2	14802
February	-4	-5	0	1	6	7	6	3	0	-5	-8	-7	-3	-1	3	2	2	1	4	3	2	0	-5	-3	14803
March	-1	1	2	4	8	7	3	-3	-11	-16	-15	-10	-4	2	6	5	7	8	7	7	4	-7	-4	0	14801
April	3	2	4	6	6	3	-3	-11	-19	-24	-23	-14	-2	6	9	11	11	11	12	10	3	2	1	-3	14804
May	1	4	5	1	-2	-6	-13	-20	-24	-24	-19	-16	0	8	12	16	19	20	19	12	5	1	1	2	14801
June	1	2	2	2	-1	-4	-9	-16	-22	-25	-25	-20	-10	0	10	12	16	19	19	17	12	9	7	5	14807
July	5	5	6	3	-1	-2	-8	-15	-23	-30	-29	-22	-13	-1	7	12	18	18	16	15	14	11	8	5	14805
August	2	2	6	6	3	-3	-9	-15	-22	-28	-21	-13	-4	3	11	11	14	13	11	8	8	7	4	3	14799
September	3	0	1	6	5	4	-1	-11	-17	-20	-17	-10	-3	6	7	9	7	8	9	6	5	1	1	1	14791
October	3	0	2	8	8	9	5	-3	-13	-16	-15	-9	-2	5	1	5	7	8	2	-1	2	-1	-4	0	14786
November	-1	0	1	4	6	5	5	3	-2	-6	-5	-4	-3	0	-2	0	1	-1	-2	0	1	1	-1	1	14791
December	-4	-2	1	3	4	7	6	4	2	2	0	1	1	1	-1	-4	-3	-4	-1	-2	-5	-2	-2	-2	14790
Winter	-3	-3	0	3	5	7	6	4	-1	-4	-5	-4	-2	0	0	1	1	0	0	0	-1	-1	-2	-1	14797
Equinox	2	1	2	6	7	6	1	-7	-15	-19	-18	-11	-3	5	5	8	8	9	8	5	3	-1	-1	0	14796
Summer	2	3	5	3	0	-4	-10	-16	-23	-27	-24	-18	-7	3	10	13	17	18	16	13	10	7	5	4	14803
Year	0	0	2	4	4	3	-1	-7	-13	-17	-16	-11	-4	2	5	7	9	9	8	6	4	2	1	1	14799

East Component Y in nT

Month/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
January	6	5	3	-1	-4	-3	-1	3	2	-1	-5	-11	-13	-12	-9	-9	-7	-2	5	11	10	12	12	7	2097
February	15	7	4	5	3	2	3	4	2	-4	-10	-16	-19	-17	-15	-9	-6	-3	2	5	11	13	12	11	2102
March	6	2	3	4	8	10	12	11	8	-2	-14	-22	-25	-22	-16	-11	-6	1	2	5	13	13	9	10	2105
April	2	7	7	10	14	17	18	15	8	-4	-15	-27	-31	-27	-20	-11	-4	-1	-2	5	12	12	9	6	2108
May	9	8	12	13	17	20	19	17	6	-7	-19	-29	-32	-26	-20	-13	-5	-1	2	4	5	6	5	8	2111
June	6	10	16	19	20	22	24	21	13	2	-13	-24	-28	-28	-23	-16	-11	-8	-6	-2	-1	0	3	4	2115
July	1	8	15	20	21	20	22	20	12	1	-12	-23	-29	-28	-23	-16	-10	-4	-1	-1	0	1	2	4	2120
August	6	4	9	17	18	19	17	14	6	-6	-19	-28	-29	-23	-17	-9	-1	0	1	0	-1	5	9	8	2123
September	7	6	9	4	2	2	8	8	2	-7	-15	-23	-25	-20	-16	0	-3	3	9	8	13	11	10	5	2129
October	3	-2	-4	-3	-4	-4	-1	2	1	-5	-12	-16	-19	-12	-7	-5	-1	13	12	17	15	13	10	7	2134
November	7	2	-1	-2	-1	-2	-3	0	-2	-6	-10	-12	-12	-10	-6	-8	1	7	8	10	13	16	10	4	2136
December	-1	-3	-4	-2	-3	-5	-4	-5	-6	-8	-8	-10	-8	-4	-2	0	8	4	11	14	12	7	10	5	2143
Winter	7	3	0	0	-1	-2	-1	0	-1	-5	-8	-12	-13	-10	-8	-6	-1	1	7	10	11	12	11	7	2120
Equinox	5	3	4	4	5	6	9	9	5	-4	-14	-22	-25	-20	-15	-7	-3	4	5	9	13	13	10	7	2119
Summer	6	7	13	17	19	20	20	18	9	-2	-16	-26	-29	-26	-21	-13	-7	-3	-1	0	1	3	5	6	2117
Year	6	4	6	7	8	8	10	9	4	-4	-13	-20	-22	-19	-14	-9	-4	1	4	6	8	9	8	6	2119

Vertical Component Z in nT

Month/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
January	-14	-18	-13	-8	-7	-7	-5	-3	-3	-2	-1	2	5	7	11	15	16	16	14	11	4	-4	-7	-8	50100
February	-16	-16	-13	-8	-4	-3	-1	-1	-2	-2	-1	1	6	10	14	13	14	13	14	10	2	-2	-11	-17	50097
March	-16	-13	-9	-6	-3	-1	0	-1	-2	-4	-3	0	4	9	12	12	15	19	13	12	1	-7	-18	-15	50101
April	-16	-11	-3	1	2	2	1	0	-3	-5	-6	-4	3	8	13	17	18	15	13	9	1	-17	-19	-19	50104
May	-24	-17	-13	-10	-6	-2	-2	-2	-4	-5	-5	0	9	17	20	26	27	23	17	5	-2	-14	-17	-22	50107
June	-13	-11	-8	-5	-5	-3	-1	-2	-3	-6	-6	-2	2	6	11	14	14	13	11	4	0	0	-4	-7	50110
July	-12	-14	-10	-7	-7	-7	-6	-6	-5	-5	-4	-2	6	12	15	16	17	16	11	6	3	-2	-6	-8	50116
August	-14	-13	-8	-4	-2	-1	-2	-3	-5	-6	-4	-1	6	14	19	22	19	16	11	2	-1	-11	-16	-15	50121
September	-27	-28	-24	-15	-9	-4	1	2	3	3	6	8	12	22	25	29	24	21	11	4	-13	-13	-14	-25	50124
October	-24	-24	-24	-17	-9	-4	0	2	4	4	7	11	16	31	26	25	24	21	10	-3	-10	-18	-24	-24	50133
November	-19	-15	-10	-7	-5	-4	-2	-2	-2	-1	-1	2	6	11	13	17	18	16	10	7	0	-7	-11	-18	50141
December	-9	-9	-9	-7	-3	-3	-2	-2	-1	0	1	3	5	8	10	14	13	12	9	4	-1	-10	-12	-10	50146
Winter	-15	-15	-11	-8	-5	-4	-3	-2	-2	-1	0	2	6	9	12	15	15	14	12	8	1	-6	-10	-13	50121
Equinox	-21	-19	-15	-9	-5	-2	1	1	0	0	1	4	9	17	19	21	20	19	12	5	-5	-14	-19	-21	50116
Summer	-16	-14	-10	-6	-5	-3	-3	-3	-4	-5	-5	-1	6	12	16	19	19	17	12	4	0	-7	-11	-13	50113
Year	-17	-16	-12	-8	-5	-3	-2	-1	-2	-2	-1	2	7	13	16	18	18	17	12	6	-1	-9	-13	-16	50116

10.2 Quiet Days

North Component X in nT

Month/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
January	-1	0	1	3	4	5	5	2	-3	-7	-7	-6	-3	1	1	0	-2	-3	-1	1	2	2	2	1	14806
February	0	1	1	2	3	5	6	2	-5	-10	-11	-8	-3	-1	0	1	2	3	3	3	3	4	1	-1	14809
March	3	3	2	2	5	6	4	-2	-11	-17	-19	-16	-13	-4	0	1	3	4	6	7	8	9	10	9	14808
April	5	5	5	5	6	4	-2	-11	-21	-29	-26	-18	-7	-3	3	4	6	8	10	11	11	11	12	11	14808
May	5	7	7	5	1	-5	-11	-18	-26	-28	-23	-15	-6	1	3	4	10	12	15	15	13	13	10	11	14805
June	5	5	6	6	4	-2	-9	-16	-21	-21	-21	-16	-11	-5	2	6	9	13	16	13	12	9	7	8	14808
July	4	5	6	6	3	1	-5	-13	-20	-27	-28	-21	-14	-4	6	7	12	13	14	16	14	10	8	8	14803
August	5	4	5	4	0	-4	-10	-16	-20	-25	-19	-10	-8	0	8	10	10	9	8	9	11	11	9	8	14802
September	3	3	4	5	6	4	0	-7	-12	-16	-19	-14	-8	-2	3	7	7	6	7	6	4	3	4	5	14800
October	4	2	3	4	7	8	3	-5	-14	-18	-18	-13	-7	-3	-2	-2	2	6	6	7	7	8	8	6	14796
November	-1	-2	-1	-1	2	4	4	1	-3	-5	-3	-3	-1	-1	-2	0	1	1	1	2	1	1	2	2	14798
December	-3	-3	-2	-2	-1	0	0	1	2	2	2	1	2	2	2	2	1	0	-2	-2	-1	0	-1	-1	14797
Winter	-1	-1	0	1	2	4	4	1	-2	-5	-5	-4	-1	0	0	1	1	0	0	1	1	2	1	0	14803
Equinox	4	3	3	4	6	6	1	-6	-14	-20	-20	-15	-9	-3	1	2	5	6	7	8	8	8	8	8	14803
Summer	5	5	6	5	2	-2	-9	-16	-22	-25	-23	-16	-10	-2	5	7	10	12	13	13	12	11	9	9	14805
Year	2	2	3	3	3	2	-1	-7	-13	-17	-16	-12	-7	-2	2	3	5	6	7	7	7	7	6	6	14803

East Component Y in nT

Month/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
January	1	1	0	0	1	3	5	7	5	1	-4	-9	-10	-8	-7	-4	-2	-1	2	4	3	4	4	3	2096
February	2	0	3	4	4	4	6	7	5	-2	-10	-13	-16	-13	-10	-8	-5	-4	-1	2	7	12	13	9	2100
March	-1	3	7	7	7	9	16	18	15	5	-8	-18	-20	-19	-11	-5	-4	-5	-3	-1	1	1	2	3	2102
April	0	2	5	9	13	19	21	18	13	2	-12	-22	-24	-18	-11	-6	-3	-1	-2	-2	1	-1	-1	-1	2107
May	3	7	12	17	22	25	24	19	6	-6	-18	-25	-25	-22	-15	-7	-3	-1	-3	-3	-3	-1	-2	-2	2111
June	3	7	13	17	20	22	24	19	10	-1	-15	-23	-26	-24	-18	-10	-4	-1	-1	-1	-3	-4	-2	-1	2114
July	3	7	12	18	22	22	23	21	12	1	-10	-20	-26	-27	-19	-12	-6	-4	-5	-6	-3	-1	-1	0	2121
August	5	7	10	16	18	19	18	13	3	-7	-16	-23	-24	-17	-11	-6	-4	-5	-4	-2	-3	2	4	4	2122
September	4	5	7	6	7	11	15	15	10	0	-9	-17	-21	-19	-13	-7	-6	-4	-3	-1	2	5	6	5	2127
October	3	4	2	3	4	5	10	12	10	0	-10	-16	-16	-14	-7	-7	-4	-3	-2	7	5	6	3	4	2130
November	4	3	2	2	1	1	2	3	1	-2	-7	-10	-10	-8	-7	-4	-2	0	1	3	5	7	8	6	2133
December	2	1	1	0	0	0	0	-1	-3	-4	-4	-5	-4	-2	-1	0	-1	-1	2	5	3	5	4	3	2140
Winter	2	1	1	2	2	2	3	4	2	-2	-6	-9	-10	-8	-6	-4	-2	-1	1	4	5	7	7	5	2117
Equinox	1	3	5	6	8	11	15	16	12	2	-10	-18	-20	-17	-11	-6	-4	-3	-2	1	2	3	2	3	2116
Summer	3	7	12	17	21	22	22	18	8	-3	-15	-22	-25	-22	-16	-9	-4	-3	-3	-3	-3	-1	0	0	2117
Year	2	4	6	8	10	12	14	13	7	-1	-10	-17	-18	-16	-11	-6	-4	-2	-2	0	1	3	3	3	2117

Vertical Component Z in nT

Month/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
January	-1	-1	-1	-1	-1	-1	-1	-2	-2	-3	-2	-2	1	2	2	2	3	4	4	3	1	0	-2	-3	50100
February	-1	0	1	1	0	-1	-2	-3	-5	-7	-6	-3	1	3	5	5	4	4	4	5	4	-1	-3	-4	50099
March	-4	-10	-7	-1	1	3	3	2	-2	-6	-7	-6	-2	2	6	6	5	4	4	4	2	2	2	1	50099
April	2	3	4	4	4	4	2	0	-3	-7	-10	-10	-4	-1	1	1	2	2	2	2	2	1	0	0	50104
May	0	4	4	4	3	3	1	-2	-8	-12	-14	-9	-3	2	5	5	5	5	3	3	2	0	0	-1	50110
June	-1	2	3	3	2	2	2	0	-7	-10	-11	-8	-4	0	1	3	4	5	5	4	3	2	1	0	50110
July	-3	0	2	2	0	0	-2	-3	-4	-6	-7	-7	-2	2	5	6	8	6	3	2	1	-1	0	-2	50117
August	-1	0	2	2	2	1	0	-3	-7	-9	-9	-6	-1	4	8	8	5	2	3	2	1	-1	-2	-2	50120
September	-4	-1	0	1	2	3	2	-1	-3	-6	-7	-6	-2	1	4	6	5	4	3	3	3	1	-2	-5	50126
October	-4	-4	-3	-2	-1	0	2	2	0	-2	-3	-1	2	5	6	5	3	2	2	1	-1	-1	-2	-4	50134
November	-2	-1	-1	-1	0	-1	0	0	0	-2	-2	-1	1	2	3	2	2	2	2	2	1	0	-2	-3	50138
December	0	0	0	0	0	0	0	-2	-2	-2	-2	-1	0	1	1	1	1	1	3	2	2	1	0	-2	50144
Winter	-1	-1	0	0	0	-1	-1	-2	-3	-3	-3	-2	1	2	3	2	2	3	3	3	2	0	-2	-3	50120
Equinox	-2	-3	-2	0	1	2	2	1	-2	-5	-7	-5	-2	2	4	4	4	3	3	3	1	1	-1	-2	50116
Summer	-1	2	3	3	2	1	0	-2	-7	-9	-10	-7	-3	2	5	6	5	5	4	3	2	0	0	-1	50114
Year	-2	-1	0	1	1	1	1	-1	-4	-6	-7	-5	-1	2	4	4	4	3	3	3	2	0	-1	-2	50117

10.3 Disturbed Days

North Component X in nT

Month/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
January	-27	-26	-14	7	7	7	9	7	-5	-13	-16	-9	-2	2	10	29	33	39	2	-4	-12	-16	-1	-7	14794
February	-20	-21	-5	-7	6	12	3	3	3	-5	-1	-1	4	2	17	9	13	8	18	3	-1	-8	-21	-9	14790
March	-22	-4	2	4	12	8	-2	-2	-3	-2	-2	4	14	18	21	20	24	35	15	7	3	-70	-57	-25	14787
April	1	2	2	6	5	-3	-7	-10	-18	-22	-22	-15	8	18	28	18	24	13	12	2	-11	-7	-1	-24	14797
May	-11	-4	12	6	2	-14	-30	-33	-30	-21	-9	-7	20	45	47	58	51	37	22	-4	-33	-47	-32	-27	14789
June	-15	-10	-2	7	-5	-13	-9	-18	-23	-29	-29	-22	-5	10	27	18	28	25	28	20	2	5	5	3	14805
July	14	8	10	-4	-7	3	-7	-14	-28	-34	-31	-28	-17	4	11	18	27	20	16	17	13	6	2	0	14805
August	8	3	11	19	16	-1	-7	-7	-16	-28	-27	-14	0	0	13	-1	12	19	11	-5	-7	-4	-3	9	14792
September	1	-5	-21	7	-3	1	5	-19	-25	-25	-17	-9	7	28	24	31	17	7	14	1	-4	-6	-3	-4	14778
October	3	8	2	12	18	20	12	3	-7	-4	-9	0	15	47	3	18	24	28	-22	-38	-31	-35	-46	-21	14771
November	-1	8	9	12	14	-2	-2	11	4	-2	1	-2	-9	4	-4	-10	-6	-4	-11	0	-4	0	1	5	14779
December	-7	-5	3	9	13	14	10	6	2	5	1	-2	2	4	0	-7	-3	-8	0	-5	-14	-6	-9	-4	14782
Winter	-15	-13	-3	5	10	9	6	6	0	-4	-4	-4	-1	3	6	6	10	9	3	-2	-8	-8	-8	-4	14787
Equinox	-4	0	-4	7	8	7	2	-7	-13	-13	-12	-5	11	28	19	22	22	21	5	-7	-11	-30	-27	-18	14783
Summer	-1	-1	8	7	2	-6	-13	-18	-24	-28	-24	-18	0	15	24	23	30	25	19	7	-6	-10	-7	-4	14798
Year	-6	-4	1	6	6	3	-2	-7	-12	-15	-14	-9	3	15	17	17	21	19	9	0	-8	-16	-14	-9	14789

East Component Y in nT

Month/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
January	26	22	14	-1	-12	-18	-17	-2	-3	-9	-6	-14	-16	-20	-13	-13	-14	-12	16	16	21	25	22	10	2100
February	30	3	2	5	0	3	3	-2	-4	-8	-21	-24	-32	-23	-28	-6	-3	3	22	19	29	16	8	5	2111
March	14	5	-4	-4	11	9	1	-9	-7	-15	-25	-27	-27	-19	-20	-20	-15	-9	-1	14	44	37	33	33	2111
April	-4	10	12	13	16	16	11	5	1	-9	-21	-35	-39	-40	-31	-21	-2	1	1	19	27	21	29	19	2110
May	36	1	0	-2	9	15	7	14	-1	-13	-23	-37	-42	-32	-26	-17	-5	0	12	18	24	21	10	32	2113
June	16	11	22	24	22	21	20	19	13	5	-10	-24	-30	-36	-33	-24	-19	-15	-11	-5	2	11	11	11	2114
July	-3	23	23	27	18	9	18	19	13	-1	-15	-28	-35	-38	-32	-22	-18	-4	-2	3	13	13	8	12	2120
August	14	0	1	18	23	16	4	3	4	-3	-20	-34	-35	-29	-22	-17	-6	7	9	14	10	23	16	3	2123
September	11	-3	-4	-17	-17	-16	0	-5	-6	-13	-15	-23	-29	-4	-5	56	12	16	27	14	7	11	12	-8	2133
October	2	0	-23	-23	-24	-20	-21	-15	-12	-17	-18	-19	-31	-7	-4	-4	0	56	17	45	31	28	26	33	2146
November	10	12	-2	-6	-6	-21	-29	-12	-13	-14	-15	-15	-15	-12	3	-6	9	15	24	21	22	36	13	3	2145
December	-3	-8	-11	-7	-10	-15	-10	-11	-13	-15	-16	-15	-16	-5	-2	15	27	-2	30	31	19	2	23	10	2147
Winter	16	6	0	-2	-8	-13	-12	-6	-7	-11	-14	-17	-20	-15	-10	-2	5	1	23	22	23	17	16	7	2124
Equinox	6	3	-5	-8	-3	-3	-2	-6	-6	-13	-20	-26	-31	-18	-15	3	-1	16	11	23	27	24	25	19	2125
Summer	16	9	11	17	18	15	12	14	7	-3	-17	-31	-35	-34	-28	-20	-12	-3	2	8	12	17	11	14	2117
Year	12	6	2	2	2	0	0	1	-2	-9	-17	-25	-29	-22	-18	-6	-3	5	12	18	21	20	17	14	2122

Vertical Component Z in nT

Month/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
January	-42	-65	-56	-37	-30	-34	-24	-11	-4	-1	4	14	12	18	40	64	62	49	43	34	12	-15	-12	-20	50102
February	-53	-55	-37	-20	-5	-2	-1	2	6	8	9	12	21	31	48	38	42	29	33	17	-17	-16	-40	-51	50096
March	-52	-29	-19	-23	-14	-5	5	2	5	8	14	18	25	26	22	23	38	59	47	45	-10	-50	-87	-48	50094
April	-46	-46	-22	-10	-9	-6	-5	-4	-4	-5	-1	7	24	31	41	49	46	45	36	18	-5	-29	-47	-58	50107
May	-69	-49	-43	-42	-21	-6	-11	-1	4	10	15	25	38	59	56	80	84	66	42	1	-25	-68	-66	-78	50092
June	-45	-48	-39	-26	-14	-6	0	1	3	3	5	10	16	20	32	38	40	33	20	-12	-11	-1	-10	-8	50102
July	-34	-41	-27	-20	-22	-25	-16	-10	-5	-1	4	12	26	31	37	35	36	34	20	7	3	-11	-15	-17	50115
August	-26	-33	-20	-8	-5	-6	-8	-7	-7	-5	2	10	22	32	39	41	42	38	24	-5	-13	-40	-41	-25	50122
September	-69	-84	-77	-50	-33	-15	2	9	15	22	36	34	43	73	74	84	57	50	16	-3	-44	-45	-44	-53	50118
October	-59	-56	-62	-48	-23	-14	-4	1	5	8	21	30	41	100	82	85	69	62	20	-9	-39	-63	-82	-65	50137
November	-64	-35	-26	-20	-17	-19	-10	-5	-3	3	5	13	23	35	37	32	28	25	17	7	-7	-16	-30	-42	50144
December	-21	-25	-24	-15	-6	-4	-1	0	3	4	5	9	13	17	21	42	30	24	27	13	-4	-38	-39	-31	50146
Winter	-44	-47	-38	-24	-15	-15	-9	-3	1	4	6	12	18	25	37	45	41	33	31	19	-3	-23	-31	-36	50120
Equinox	-56	-54	-45	-33	-20	-10	-1	2	5	8	17	22	33	58	55	60	53	54	30	13	-25	-47	-65	-56	50114
Summer	-44	-43	-32	-24	-16	-11	-9	-4	-1	2	6	14	25	36	41	48	51	43	26	-2	-12	-30	-33	-32	50108
Year	-48	-48	-39	-27	-17	-12	-6	-2	2	5	10	16	26	40	44	51	48	43	29	10	-13	-34	-43	-42	50114

11 Monthly and Annual Means

All days

	Z	H	D	F	X	Y	I
January	50100	14950	8° 03.9′	52283	14802	2097	73° 23.1′
February	50097	14951	8° 05.0′	52281	14803	2102	73° 23.0′
March	50101	14950	8° 05.6′	52284	14801	2105	73° 23.1′
April	50104	14953	8° 06.3′	52288	14804	2108	73° 22.9′
May	50107	14951	8° 07.1′	52290	14801	2111	73° 23.1′
June	50110	14958	8° 07.7′	52295	14807	2115	73° 22.8′
July	50116	14956	8° 08.8′	52300	14805	2120	73° 23.0′
August	50121	14951	8° 09.8′	52303	14799	2123	73° 23.4′
September	50124	14943	8° 11.5′	52304	14791	2129	73° 23.9′
October	50133	14939	8° 12.8′	52311	14786	2134	73° 24.4′
November	50141	14945	8° 13.1′	52321	14791	2136	73° 24.2′
December	50146	14945	8° 14.7′	52326	14790	2143	73° 24.3′
Winter	50121	14948	8° 09.1′	52302	14797	2120	73° 23.6′
Equinox	50116	14947	8° 09.0′	52297	14796	2119	73° 23.6′
Summer	50113	14954	8° 08.4′	52297	14803	2117	73° 23.1′
Year	50116	14949	8° 08.8′	52299	14799	2119	73° 23.4′

5 Quiet days

	Z	H	D	F	X	Y	I
January	50100	14954	8° 03.5′	52284	14806	2096	73° 22.8′
February	50099	14957	8° 04.2′	52284	14809	2100	73° 22.6′
March	50099	14957	8° 04.7′	52284	14808	2102	73° 22.7′
April	50104	14957	8° 05.8′	52289	14808	2107	73° 22.7′
May	50110	14954	8° 07.0′	52293	14805	2111	73° 23.0′
June	50110	14959	8° 07.5′	52295	14808	2114	73° 22.7′
July	50117	14954	8° 09.3′	52300	14803	2121	73° 23.1′
August	50120	14953	8° 09.4′	52303	14802	2122	73° 23.2′
September	50126	14952	8° 10.6′	52308	14800	2127	73° 23.5′
October	50134	14949	8° 11.6′	52315	14796	2130	73° 23.8′
November	50138	14951	8° 12.2′	52320	14798	2133	73° 23.7′
December	50144	14951	8° 13.7′	52326	14797	2140	73° 23.8′
Winter	50120	14953	8° 08.4′	52303	14803	2117	73° 23.3′
Equinox	50116	14953	8° 08.2′	52299	14803	2116	73° 23.2′
Summer	50114	14955	8° 08.3′	52298	14805	2117	73° 23.0′
Year	50117	14954	8° 08.3′	52300	14803	2117	73° 23.1′

5 Disturbed days

	Z	H	D	F	X	Y	I
January	50102	14943	8° 04.8′	52283	14794	2100	73° 23.6′
February	50096	14940	8° 07.5′	52276	14790	2111	73° 23.7′
March	50094	14937	8° 07.4′	52274	14787	2111	73° 23.8′
April	50107	14947	8° 06.9′	52289	14797	2110	73° 23.4′
May	50092	14939	8° 07.9′	52272	14789	2113	73° 23.6′
June	50102	14955	8° 07.7′	52286	14805	2114	73° 22.8′
July	50115	14956	8° 08.9′	52299	14805	2120	73° 23.0′
August	50122	14944	8° 10.0′	52302	14792	2123	73° 23.9′
September	50118	14931	8° 12.9′	52294	14778	2133	73° 24.6′
October	50137	14926	8° 16.0′	52311	14771	2146	73° 25.3′
November	50144	14933	8° 15.4′	52321	14779	2145	73° 25.0′
December	50146	14937	8° 15.9′	52323	14782	2147	73° 24.8′
Winter	50120	14939	8° 10.6′	52299	14787	2124	73° 24.2′
Equinox	50114	14935	8° 10.8′	52292	14783	2125	73° 24.3′
Summer	50108	14949	8° 08.6′	52290	14798	2117	73° 23.3′
Year	50114	14941	8° 10.0′	52294	14789	2122	73° 23.9′

12 Hourly Means of All Days as Sequenced in Bartels' 27-day Solar Rotation Number

12.1 H-Component

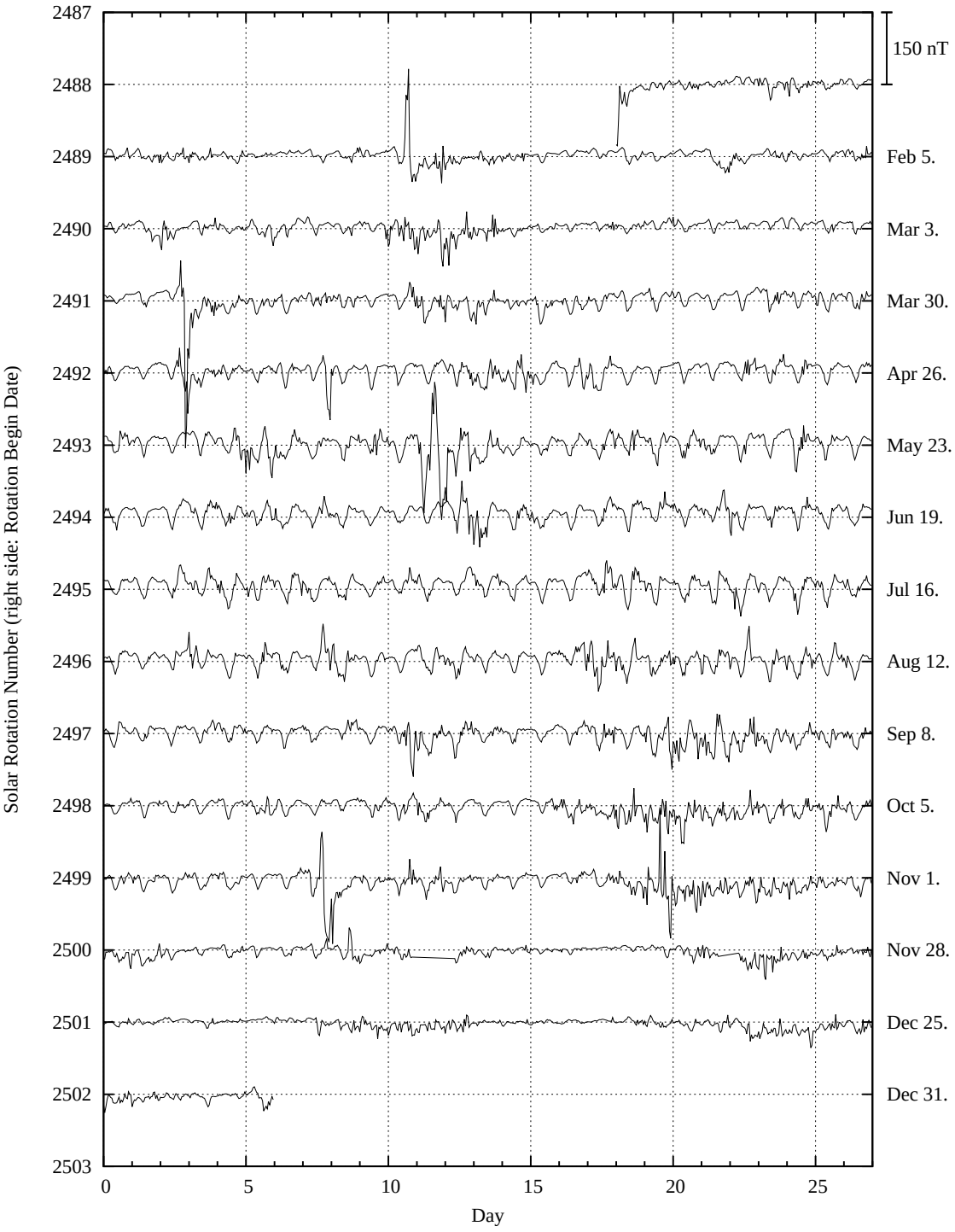


Figure 4: Hourly means of H sequenced in Bartels' solar rotation cycles.

12.2 D-Component

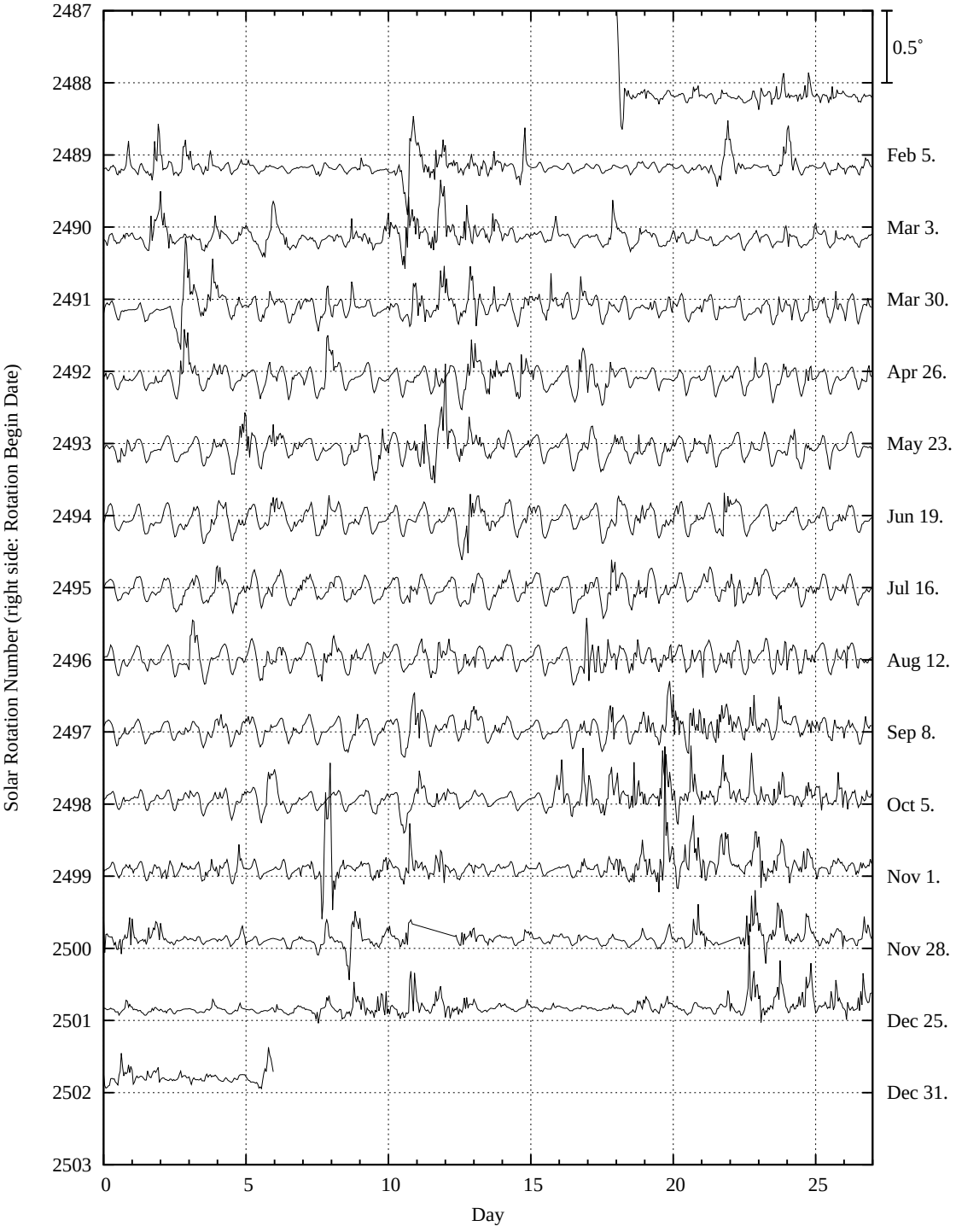


Figure 5: Hourly means of D sequenced in Bartels' solar rotation cycles.

12.3 Z-Component

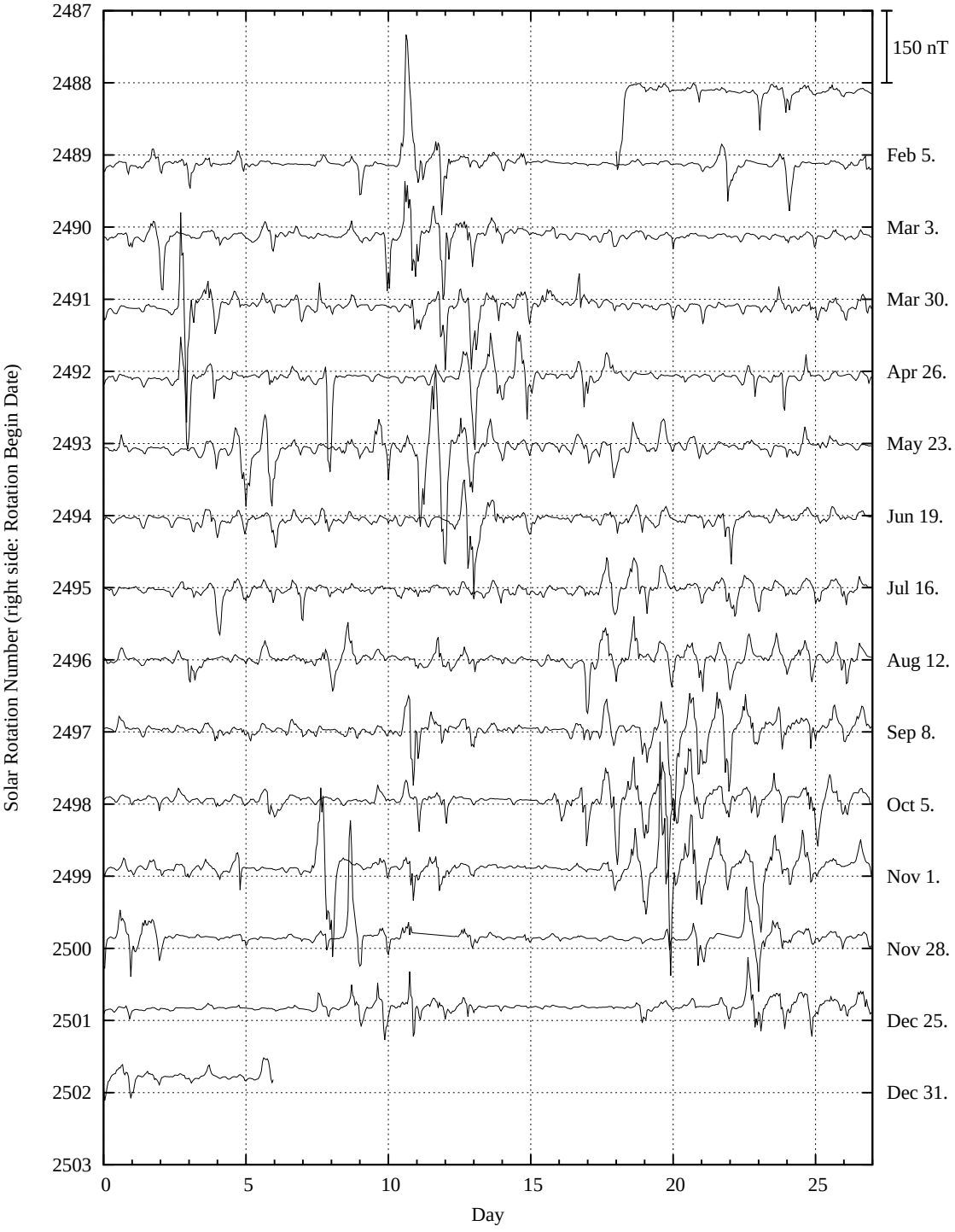


Figure 6: Hourly means of Z sequenced in Bartels' solar rotation cycles.

13 K-Indices

13.1 Monthly Tables of K-Indices

January

Day	K								Ak
1	6	5	5	2	1	1	2	1	25
2	2	1	3	2	2	2	2	2	8
3	1	1	1	1	1	2	2	3	6
4	1	1	1	1	0	2	2	1	4
5	0	1	1	1	1	1	3	2	5
6	4	2	2	2	3	3	4	4	17
7	3	2	2	3	3	3	3	1	12
8	1	2	1	2	3	1	2	1	6
9	1	0	1	1	1	2	0	1	3
10	2	1	1	2	2	1	3	3	8
11	1	2	2	1	2	4	5	4	16
12	4	2	2	2	1	2	4	3	13
13	4	3	1	2	2	3	3	1	12
14	0	1	2	2	1	2	2	3	6
15	2	2	1	0	1	2	1	1	4
16	0	0	0	1	1	0	0	0	1
17	0	0	1	0	1	1	1	0	2
18	0	0	0	0	0	2	0	2	2
19	4	2	2	3	1	2	0	1	9
20	0	1	2	3	5	6	6	4	33
21	3	4	4	3	2	5	4	5	27
22	3	3	3	2	2	2	3	3	12
23	2	2	2	1	2	3	2	2	8
24	2	2	2	1	2	2	5	1	11
25	0	0	1	0	0	0	0	0	0
26	0	0	0	2	1	1	1	1	2
27	1	1	1	1	1	1	0	0	2
28	0	0	1	2	1	1	1	1	3
29	0	0	0	0	0	1	1	1	1
30	0	0	0	0	0	1	0	0	0
31	2	1	1	2	2	3	3	4	11
Mean									8.7

February

Day	K								Ak
1	3	3	1	2	0	0	0	0	1
2	0	0	0	1	1	2	2	4	6
3	4	4	2	1	1	1	1	0	9
4	0	0	1	2	2	2	2	1	4
5	2	2	2	2	2	2	3	2	8
6	1	2	1	1	1	2	2	3	6
7	1	0	1	2	2	4	3	3	10
8	5	3	3	2	1	1	1	1	12
9	2	1	1	2	2	1	1	3	6
10	2	1	0	0	0	1	2	2	3
11	1	1	1	1	2	3	3	4	10
12	3	1	2	3	2	2	2	2	9
13	1	2	2	2	1	1	0	1	4
14	1	1	2	1	2	4	2	2	8
15	2	2	2	2	1	1	2	4	9
16	5	2	2	3	5	5	6	5	38
17	4	3	2	3	4	4	5	6	31
18	4	4	3	3	2	4	5	3	23
19	3	2	2	3	3	4	4	2	15
20	2	1	1	1	1	1	1	1	4
21	1	1	1	0	0	1	3	3	5
22	0	0	0	1	1	1	1	1	2
23	2	0	0	1	1	1	3	4	7
24	2	1	1	1	1	1	2	2	5
25	2	1	1	1	1	1	1	2	4
26	3	2	1	1	1	1	2	0	5
27	0	1	1	1	0	1	1	1	2
28	1	0	1	1	1	0	1	2	3
Mean									8.9

March

Day	K								Ak
1	2	0	0	1	1	0	0	3	6
2	3	1	1	1	1	1	1	3	6
3	2	1	1	2	2	3	1	1	6
4	2	2	2	2	2	1	0	2	3
5	3	2	0	1	0	0	0	0	3
6	0	0	2	2	2	0	0	0	62
7	0	1	2	2	3	6	7	8	30
8	5	4	3	3	3	4	5	5	11
9	3	2	2	2	2	2	4	2	5
10	1	1	1	1	2	2	2	2	6
11	2	1	1	1	1	1	2	3	19
12	1	2	2	3	5	3	4	4	13
13	3	2	2	2	2	4	4	1	2
14	0	1	1	1	1	1	0	1	8
15	2	0	1	1	1	2	3	4	25
16	4	3	3	3	1	3	6	4	18
17	5	2	2	3	3	2	3	4	20
18	4	4	3	3	2	4	4	3	8
19	1	1	2	2	2	2	3	3	12
20	2	2	2	3	3	4	2	2	11
21	1	2	1	2	1	4	4	2	7
22	2	2	1	2	2	2	2	2	7
23	2	1	2	3	2	1	1	2	7
24	1	2	2	2	2	1	2	3	6
25	2	1	2	2	2	2	1	1	4
26	2	1	1	2	1	2	1	0	1
27	0	0	0	0	0	0	1	1	10
28	2	2	2	3	3	3	2	2	9
29	2	3	1	1	2	2	3	3	10
30	3	2	2	3	2	3	2	2	12
Mean									11.6

April

Day	K								Ak
1	3	2	1	1	1	2	1	1	3
2	2	0	0	0	1	0	2	1	24
3	1	0	0	1	4	4	5	6	11
4	3	2	2	2	1	2	4	3	6
5	2	2	1	2	2	1	1	2	5
6	0	0	0	2	2	2	3	2	7
7	2	0	2	2	3	2	1	2	21
8	2	1	1	2	1	3	5	6	6
9	4	2	0	1	1	1	1	1	2
10	0	0	1	1	1	2	0	1	5
11	1	1	2	1	2	1	0	3	5
12	0	0	0	1	3	3	1	2	17
13	3	2	1	3	4	3	4	4	24
14	5	3	3	4	4	3	4	3	22
15	3	2	2	3	4	5	4	4	9
16	3	2	1	2	2	3	2	2	14
17	0	1	2	3	2	4	4	4	16
18	4	3	2	2	3	3	4	3	5
19	2	1	2	2	2	1	1	0	1
20	0	0	0	1	2	0	0	0	3
21	0	1	1	1	1	1	1	1	4
22	0	1	1	2	1	2	2	1	15
23	1	1	2	2	4	4	3	4	10
24	1	2	1	2	3	2	2	4	12
25	1	2	2	1	3	4	4	1	5
26	1	0	2	2	3	2	1	0	8
27	1	1	1	2	2	2	3	3	9
28	1	1	2	2	3	3	3	2	5
29	2	1	2	2	2	1	1	1	2
30	1	1	0	1	1	0	1	1	7
Mean									9.4

May

Day	K								Ak
1	0	1	2	2	2	2	2	3	16
2	2	1	1	3	4	3	4	4	25
3	5	4	2	3	3	3	5	4	11
4	3	2	2	2	2	3	3	3	4
5	1	1	0	1	2	2	1	1	7
6	0	1	2	2	3	3	1	2	15
7	2	1	2	3	4	3	4	3	9
8	3	1	2	3	2	2	1	3	64
9	5	5	5	5	6	6	6	6	29
10	6	3	3	4	4	3	4	4	14
11	3	3	2	3	4	2	3	2	6
12	2	1	1	2	1	2	1	3	4
13	1	1	1	1	2	0	1	2	7
14	1	0	1	2	3	2	3	2	12
15	3	2	2	3	3	2	3	3	16
16	3	2	2	3	4	4	4	1	13
17	2	3	2	3	4	3	2	2	15
18	2	2	2	4	4	3	3	3	9
19	1	2	3	3	3	2	1	1	8
20	1	1	2	2	3	3	2	1	6
21	2	2	2	2	2	1	1	2	16
22	2	3	4	3	4	3	3	1	9
23	2	2	3	3	3	2	1	0	3
24	0	1	1	2	1	1	1	0	5
25	2	1	2	3	2	0	1	0	2
26	0	1	1	2	1	1	0	0	3
27	0	0	1	1	1	2	2	1	13
28	2	2	1	3	4	3	3	3	12
29	3	2	3	3	3	3	2	2	8
30	2	1	1	2	2	2	3	3	9
31	3	2	2	3	2	2	2	2	12
Mean									12.3

June

Day	K								Ak
1	2	2	2	2	2	3	3	4	6
2	2	1	1	2	2	2	2	1	2
3	1	1	0	1	1	1	0	1	2
4	1	0	1	1	0	1	0	1	3
5	1	0	0	1	1	1	2	1	34
6	1	2	2	4	5	5	6	5	22
7	5	4	3	4	3	2	4	2	9
8	2	1	1	2	3	2	3	3	7
9	2	2	1	2	3	2	1	1	4
10	2	0	1	1	2	1	1	1	7
11	1	1	0	2	3	2	3	2	12
12	3	1	2	2	3	3	2	4	12
13	2	2	2	2	4	3	3	2	11
14	3	3	2	3	3	2	2	1	16
15	2	2	2	1	3	3	5	4	18
16	5	2	3	4	4	3	1	1	9
17	2	2	2	3	3	2	2	1	10
18	1	2	2	3	3	3	3	1	9
19	2	2	2	3	3	2	2	2	5
20	2	2	2	1	2	2	1	0	4
21	1	1	2	1	2	1	1	1	4
22	1	1	1	1	3	1	1	0	8
23	1	1	1	2	3	2	3	2	12
24	2	3	1	2	2	3	3	4	14
25	4	3	2	2	3	3	2	3	7
26	2	1	1	1	2	2	2	3	12
27	2	2	1	2	3	3	3	4	7
28	3	2	2	1	2	1	2	2	7
29	2	2	2	2	3	2	2	0	5
30	1	1	1	1	2	2	2	1	6
Mean									9.5

July

Day	K								Ak
1	0	1	0	2	1	3	3	2	7
2	3	2	2	3	2	1	0	1	7
3	1	1	1	2	2	1	3	3	11
4	3	2	2	2	2	2	2	4	7
5	2	2	2	2	1	1	3	2	5
6	1	1	1	2	2	1	2	1	6
7	0	1	1	1	2	2	2	3	23
8	3	3	2	3	4	4	5	4	16
9	3	2	3	3	3	4	4	2	16
10	3	3	3	3	4	3	3	2	11
11	2	2	2	3	4	2	2	2	11
12	2	2	2	3	3	3	2	3	16
13	3	4	3	3	3	3	2	3	9
14	3	2	2	2	3	2	2	2	11
15	2	2	3	3	3	3	2	2	13
16	3	3	3	3	3	3	2	2	9
17	3	2	2	2	3	2	2	1	5
18	1	1	1	2	2	2	2	1	4
19	1	1	2	1	1	1	0	2	7
20	2	1	1	1	2	1	1	4	19
21	5	4	3	3	3	3	3	1	6
22	1	0	2	2	2	3	1	1	12
23	1	1	2	2	4	4	3	2	8
24	2	3	3	2	2	1	1	2	14
25	1	1	1	2	3	4	4	4	16
26	4	3	2	3	3	3	3	3	5
27	1	2	1	1	1	2	2	2	2
28	0	0	0	1	1	1	1	2	14
29	2	3	2	2	3	3	4	3	13
30	3	3	3	3	3	3	2	2	6
31	3	1	2	2	1	1	1	1	3
Mean									10.1

August

Day	K								Ak
1	2	0	0	1	2	2	1	0	4
2	2	1	0	1	1	2	1	2	18
3	1	1	1	3	3	4	4	5	33
4	5	4	4	4	4	6	3	3	15
5	3	3	2	3	3	4	3	2	21
6	2	4	4	4	4	3	2	4	12
7	3	2	2	3	3	3	2	3	15
8	4	2	2	2	4	4	1	3	11
9	3	2	2	2	3	4	2	0	17
10	1	3	2	3	5	4	2	3	16
11	4	2	2	3	3	4	3	3	9
12	2	1	1	2	2	3	3	3	11
13	4	2	2	3	2	3	2	1	5
14	2	1	0	1	2	2	2	1	5
15	1	1	1	2	3	1	1	0	3
16	1	0	1	1	1	2	0	2	6
17	1	0	0	2	2	2	2	3	8
18	2	2	1	2	2	1	3	3	7
19	2	3	1	2	2	2	1	2	3
20	0	0	1	1	2	2	1	1	3
21	2	1	1	1	1	0	0	1	11
22	0	0	1	2	4	4	2	3	4
23	1	1	1	1	1	1	2	2	29
24	1	2	1	3	3	4	6	6	15
25	4	3	2	4	3	2	2	3	11
26	2	2	2	2	3	3	3	3	7
27	3	1	0	1	2	3	2	2	5
28	2	2	1	2	2	1	1	0	2
29	0	0	1	1	1	1	1	0	9
30	1	0	1	3	3	2	3	3	24
31	3	1	2	3	4	5	4	5	6
Mean									11.1

September

Day	K								Ak
1	2	1	1	2	1	1	2	3	26
2	4	3	3	3	4	3	5	5	40
3	6	5	4	4	5	4	3	5	31
4	4	4	3	4	4	4	5	5	21
5	4	3	3	3	3	4	4	4	15
6	2	3	3	2	2	4	4	3	15
7	2	2	3	3	3	3	4	3	9
8	2	2	2	2	3	3	2	2	11
9	3	2	2	2	3	3	3	2	3
10	1	1	0	0	2	1	1	2	4
11	1	1	1	1	0	0	1	3	3
12	0	0	0	1	2	1	2	1	6
13	2	1	1	2	3	0	1	2	4
14	2	1	1	1	1	1	0	2	10
15	1	1	1	2	3	2	4	3	6
16	3	1	1	2	1	1	1	2	3
17	0	0	0	2	1	2	2	1	3
18	1	0	0	2	1	0	0	2	6
19	1	1	1	2	2	2	2	2	8
20	1	0	2	3	3	2	2	2	18
21	4	4	3	4	2	3	3	2	6
22	3	2	2	2	1	0	1	2	2
23	2	1	1	1	1	0	0	0	2
24	0	1	1	1	1	1	0	1	5
25	0	0	1	1	2	1	2	3	26
26	4	4	1	4	3	3	5	5	19
27	4	3	2	3	3	3	4	4	30
28	5	4	3	3	5	5	4	3	36
29	4	4	3	3	4	5	6	5	33
30	4	4	4	4	5	5	5	3	25
Mean									14.2

October

Day	K								Ak
1	3	3	3	3	3	4	6	3	9
2	3	3	2	2	3	3	4	3	18
3	3	2	2	2	3	3	4	4	14
4	2	2	3	1	2	3	4	3	4
5	3	4	2	3	4	2	5	4	1
6	3	3	2	2	2	3	2	2	4
7	1	2	1	1	1	2	3	1	2
8	2	1	1	1	1	2	3	1	2
9	2	2	1	2	1	1	2	2	6
10	2	1	1	1	2	1	3	2	17
11	3	2	1	2	1	3	4	1	10
12	0	0	1	2	1	0	0	1	14
13	1	1	0	2	1	1	3	3	0
14	2	2	3	3	5	8	6	6	16
15	6	4	3	2	2	2	1	1	7
16	2	2	1	2	2	3	2	3	5
17	3	1	2	3	3	3	6	3	2
18	3	3	3	3	2	4	4	4	2
19	2	2	2	2	2	1	2	3	2
20	3	1	1	2	1	1	2	1	3
21	1	0	1	0	1	0	2	1	6
22	0	0	0	0	0	0	0	0	14
23	1	0	0	1	1	2	3	2	12
24	0	2	2	2	1	3	3	3	29
25	3	3	2	2	3	3	2	4	25
26	5	4	2	4	7	7	5	7	11
27	4	4	3	4	4	5	6	5	9
28	4	3	3	2	3	5	4	4	10
29	2	1	2	3	3	4	4	4	5
30	5	4	3	3	3	3	3	3	3
31	4	3	3	2	4	4	4	2	0
Mean									8.5

November

Day	K								Ak
1	2	3	2	3	2	3	3	2	9
2	2	1	1	2	3	2	1	4	18
3	5	1	1	2	3	3	2	5	14
4	3	1	2	3	3	3	3	4	4
5	3	1	1	0	0	0	2	1	1
6	1	0	1	1	0	0	0	0	4
7	1	0	1	1	2	1	2	2	2
8	2	0	1	1	1	1	0	0	2
9	0	0	0	1	2	0	0	2	6
10	0	0	1	1	2	2	3	3	17
11	1	1	1	2	3	5	4	4	10
12	4	1	2	2	1	2	2	3	14
13	3	2	2	3	3	4	3	0	
14				2	3	4	3	3	16
15	3	2	2	2	2	2	1	1	7
16	1	1	1	1	0	1	3	2	5
17	1	0	1	1	0	1	1	0	2
18	1	0	0	0	0	2	1	1	2
19	0	0	0	0	1	0	2	1	2
20	0	0	1	1	1	1	1	2	3
21	1	1	1	1	1	2	2	3	6
22	1	1	1	2	2	4	3	5	14
23	4	3	2	1	2				12
24				2	5	3	5	4	29
25	4	4	4	2	4	5	4	2	25
26	2	2	2	2	2	4	3	2	11
27	2	2	2	2	2	1	3	3	9
28	2	1	1	1	2	4	3	3	10
29	1	0	0	1	1	1	3	3	5
30	1	1	1	1	0	1	1	1	3
Mean									8.7

December

Day	K								Ak
1	1	1	0	0	1	0	0	0	1
2	0	1	1	1	1	1	2	2	4
3	0	0	0	0	0	1	3	0	2
4	0	0	0	0	0	0	0	1	0
5	3	1	0	0	1	2	1	1	4
6	0	1	1	2	3	2	3	3	8
7	0	1	2	1	2	3	4	3	10
8	3	3	3	2	3	4	4	4	19
9	3	2	2	3	3	3	5	5	21
10	3	3	2	3	3	3	3	2	13
11	3	3	2	2	2	4	4	2	14
12	2	1	1	1	1	1	0	2	4
13	1	1	1	1	1	1	1	2	4
14	1	1	1	2	1	1	2	1	4
15	0	0	0	1	0	0	1	0	1
16	1	0	0	0	0	0	1	2	2
17	0	0	0	1	1	1	3	3	5
18	3	1	1	2	2	1	2	2	7
19	1	1	1	0	1	1	2	1	3
20	1	1	1	1	1	2	1	4	7
21	3	1	1	2	3	6	5	4	25
22	4	4	2	2	3	3	5	3	20
23	3	2	2	3	3	4	5	4	20
24	2	2	2	2	3	4	3	2	12
25	3	3	1	3	4	5	4	3	21
26	3	2	2	3	4	5	3	4	20
27	4	2	2	2	3	1	3	3	12
28	2	1	0	1	1	2	1	2	4
29	2	1	0	1	2	2	1	1	4
30	0	1	1	0	1	0	1	2	2
31	1	1	1	2	3	3	3	3	10
Mean									9.1

13.2 K-Indices Sequenced in Bartels Solar Rotation Number

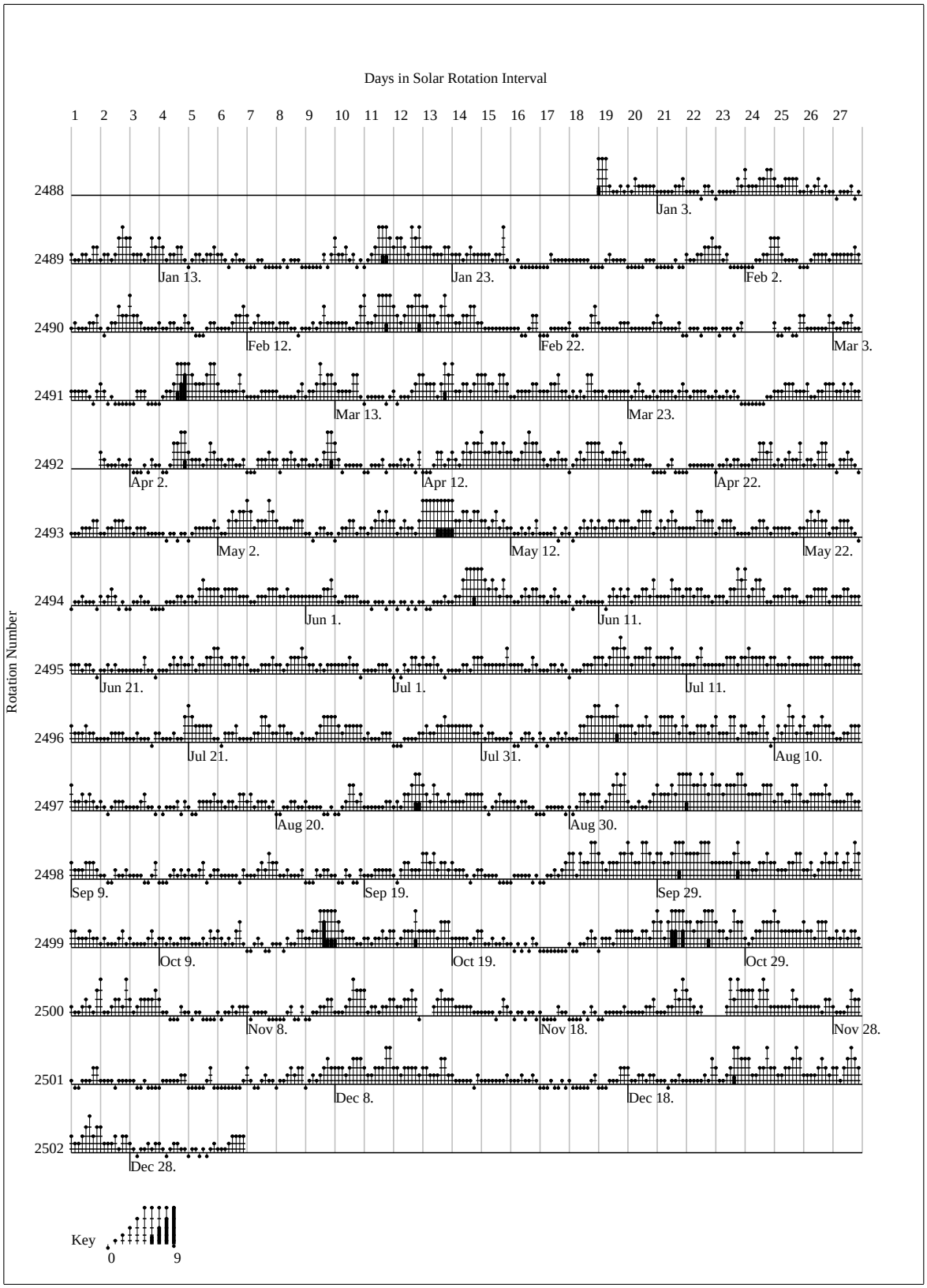


Figure 7: K-indices sequenced in Bartels solar rotation number

13.3 Ak-Indices

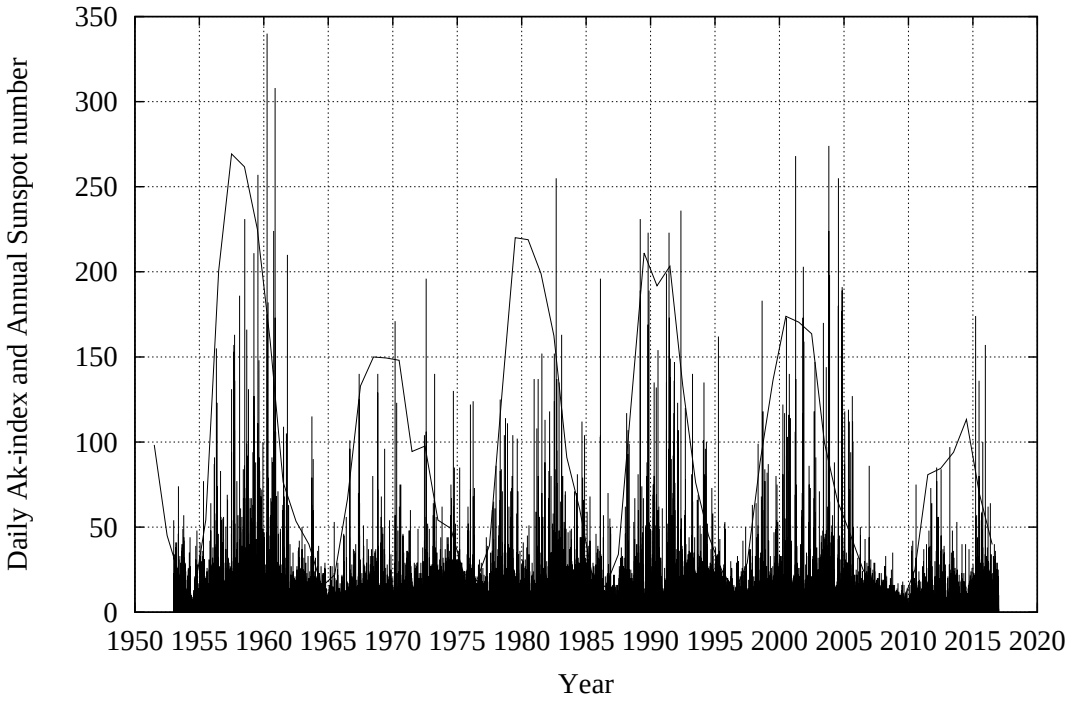


Figure 8: Daily Ak-indices (vertical lines) and sunspots (solid line)

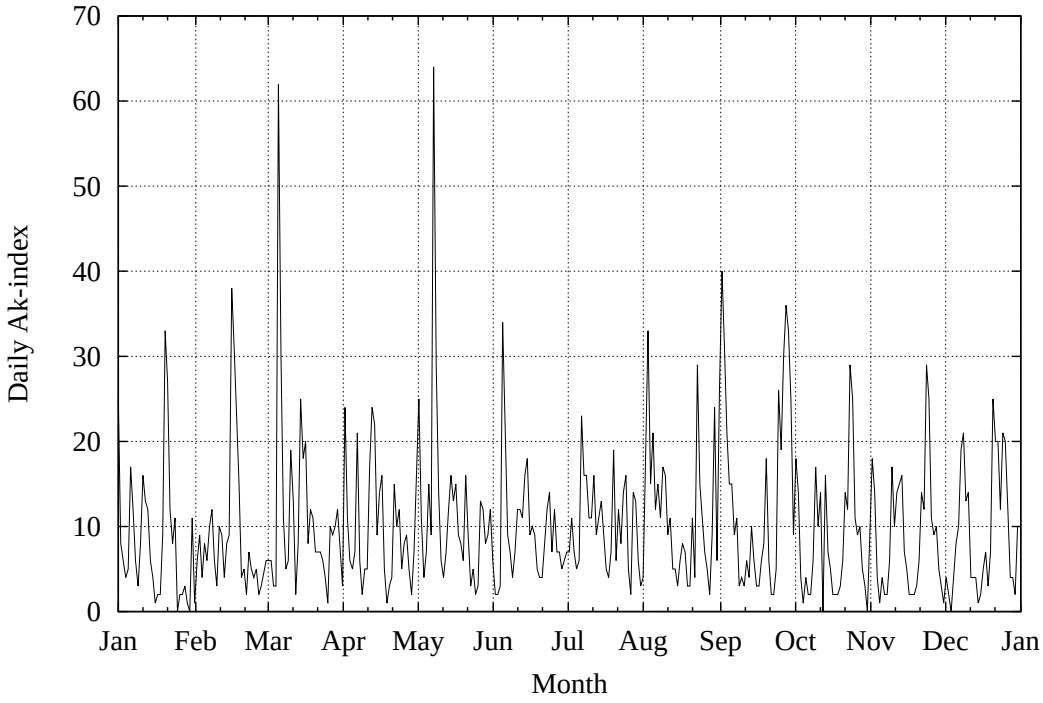


Figure 9: Daily Ak-indices

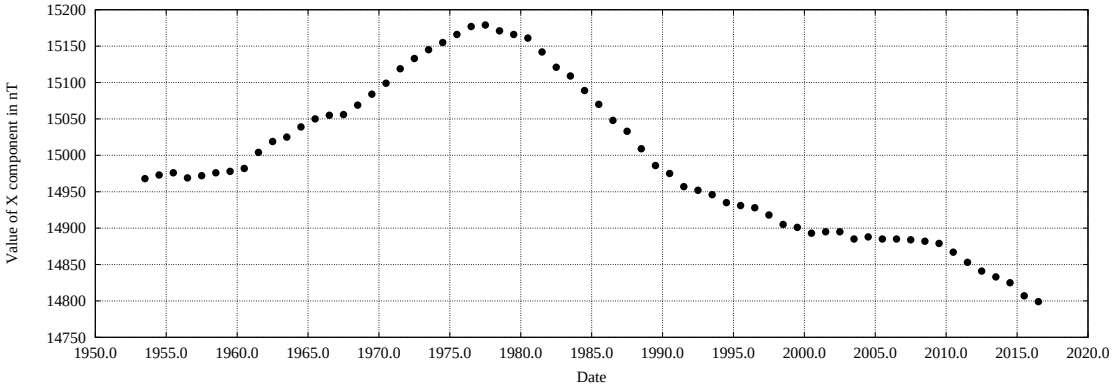
13.4 Table of Annual Ak-indices

m/M denotes sunspot minimum/maximum

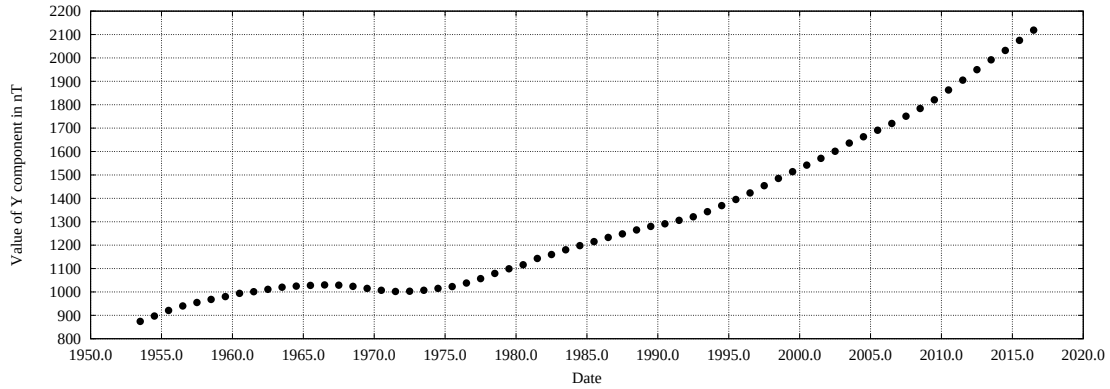
Year	Ak
1953	11
1954m	8
1955	9
1956	14
1957M	16
1958	18
1959	21
1960	22
1961	12
1962	10
1963	10
1964m	8
1965	6
1966	8
1967	10
1968M	11
1969	10
1970	10
1971	9
1972	10
1973	13
1974	15
1975	11
1976m	10
1977	9
1978	13
1979M	12
1980	9
1981	13
1982	19
1983	15
1984	14

Year	Ak
1985	10
1986m	10
1987	8
1988	11
1989M	16
1990	13
1991	21
1992	15
1993	13
1994	16
1995	11
1996m	9
1997	8
1998	12
1999	12
2000M	15
2001	14
2002	13
2003	22
2004	14
2005	14
2006	8
2007	7
2008m	7
2009	4
2010	6
2011	8
2012	9
2013	8
2014M	8
2015	13
2016	10

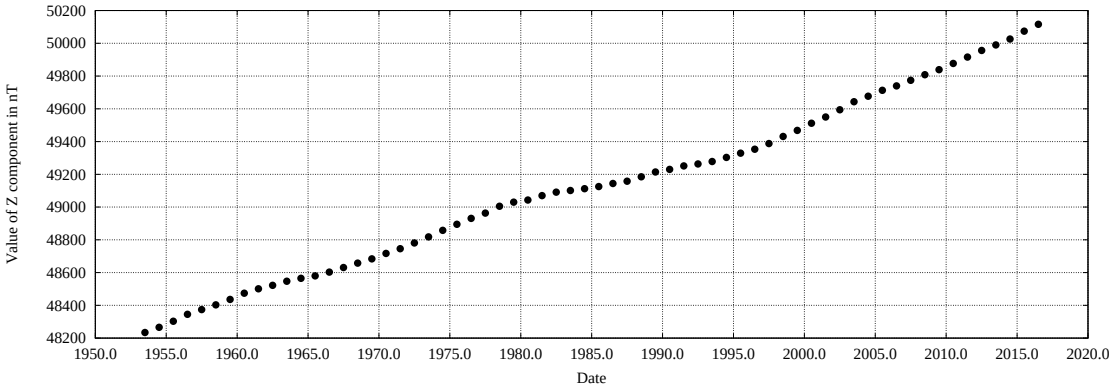
14 Annual Means



(a) Annual means for X component

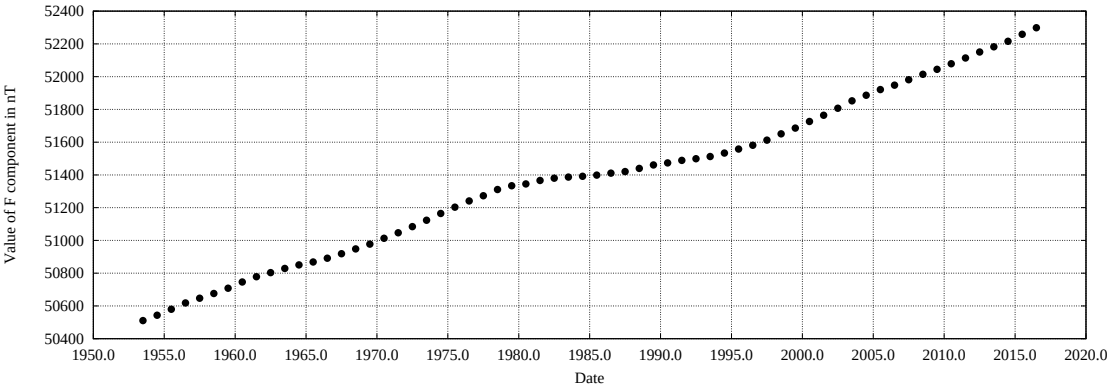


(b) Annual means for Y component

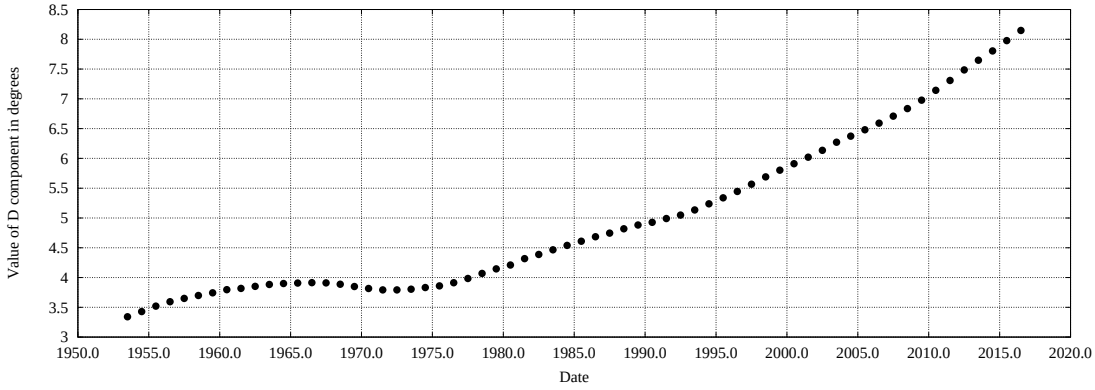


(c) Annual means for Z component

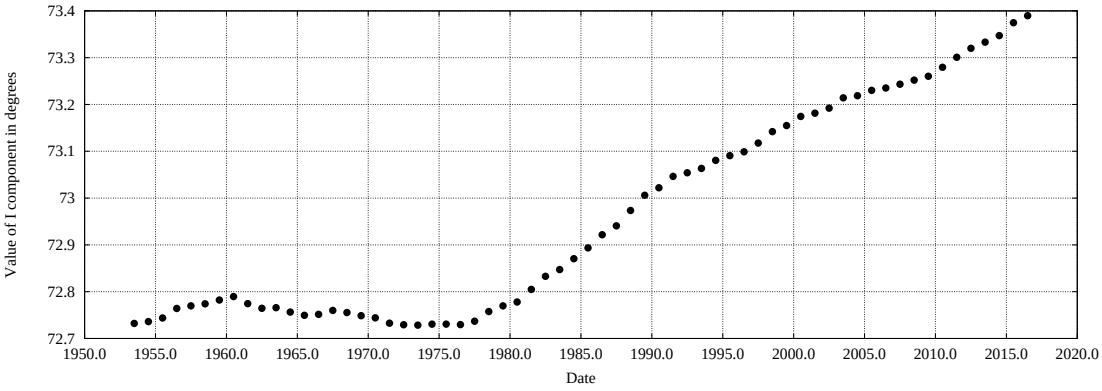
Figure 10: Figures of annual means of X, Y, and Z



(a) Annual means for F component



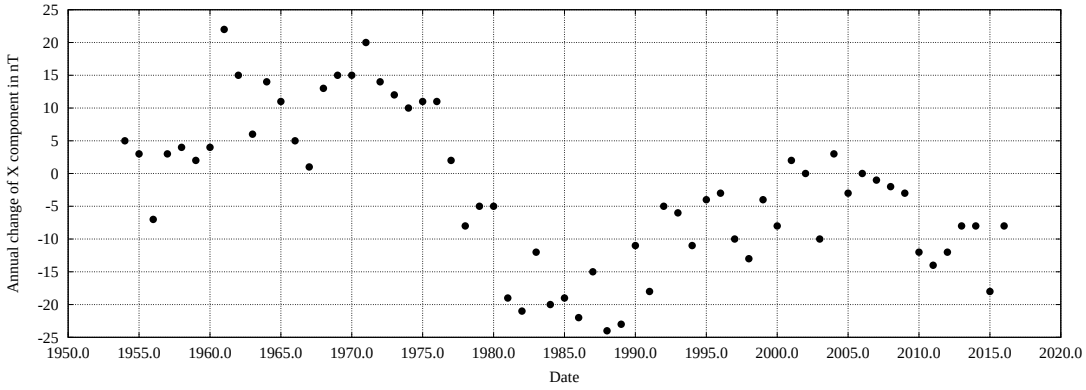
(b) Annual means for D component



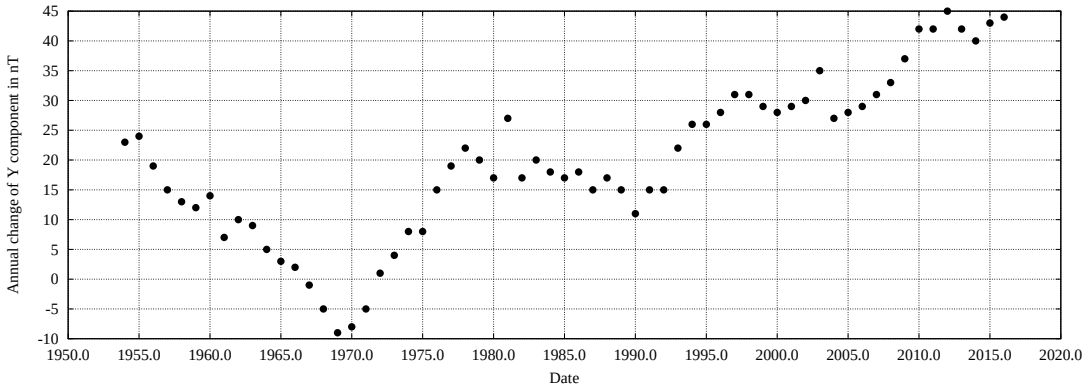
(c) Annual means for I component

Figure 11: Figures of annual means of F, D, and I

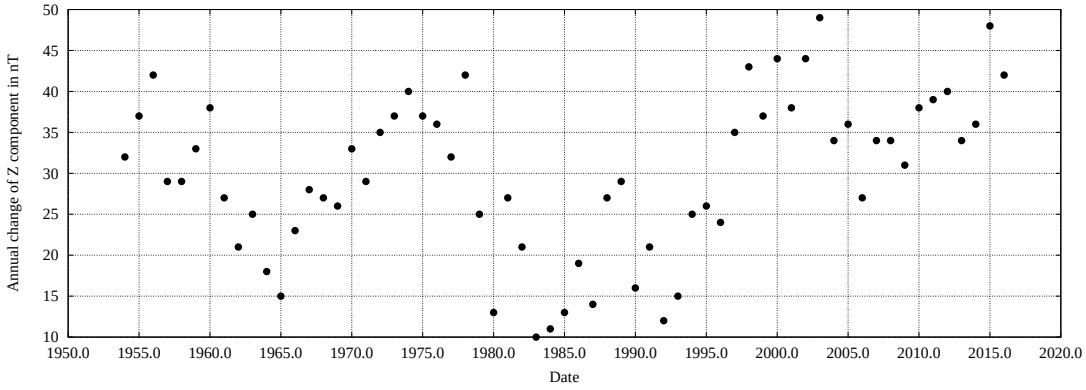
15 Secular Variation



(a) Annual change of X component

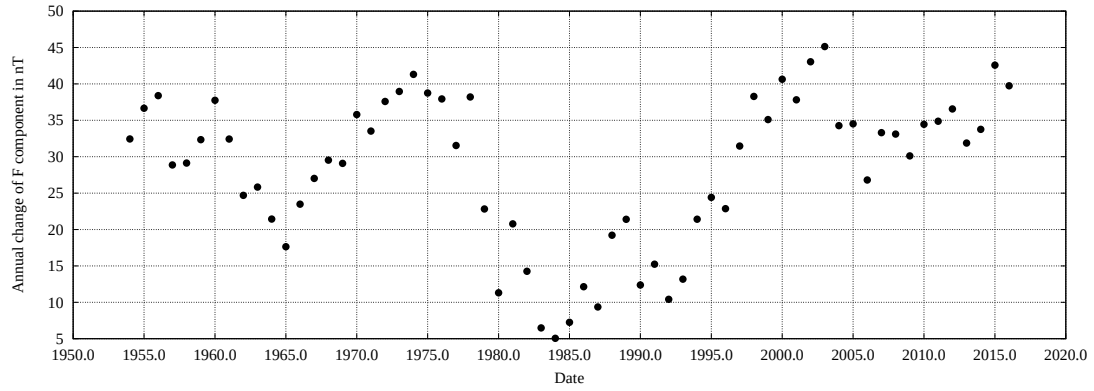


(b) Annual change of Y component

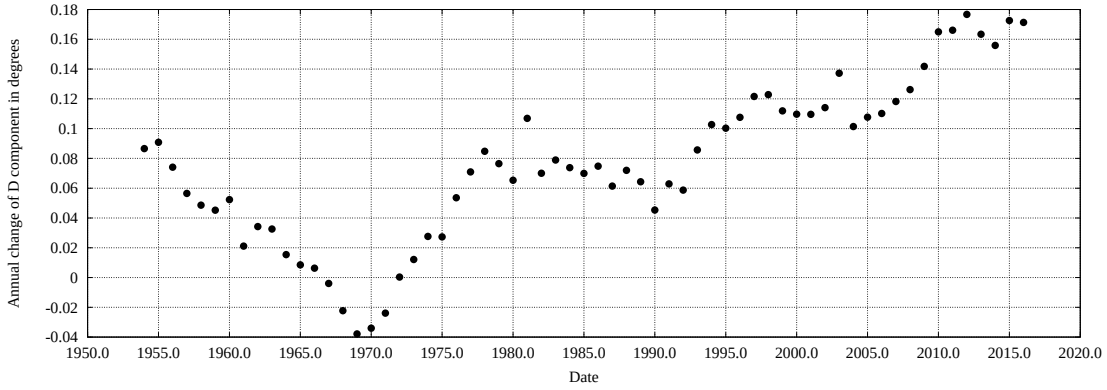


(c) Annual change of Z component

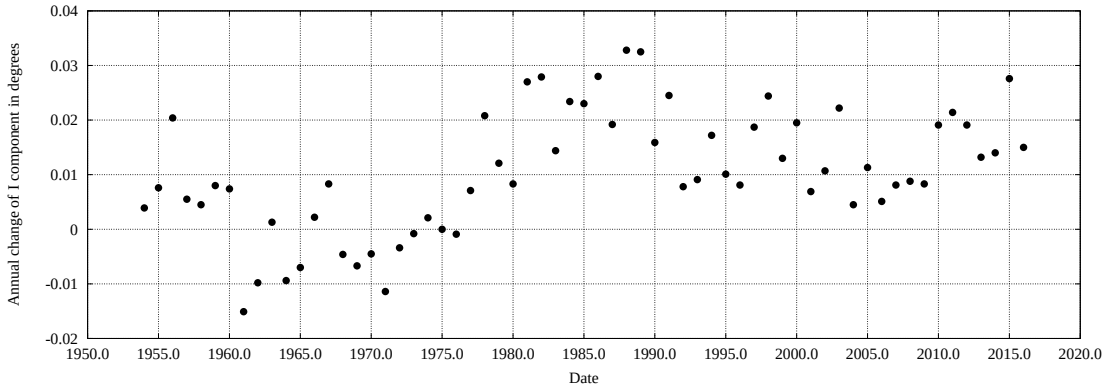
Figure 12: Annual change of components X, Y, and Z



(a) Annual change of F component



(b) Annual change of D component



(c) Annual change of I component

Figure 13: Annual change of components F, D, and I

16 Tables of Annual Means

16.1 All Days

Year	X	Y	Z	D	H	F	I
1953	14968	874	48234	3° 20.5′	14993	50511	72° 43.9′
1954	14973	897	48266	3° 25.7′	15000	50543	72° 44.2′
1955	14976	921	48303	3° 31.1′	15004	50580	72° 44.6′
1956	14969	940	48345	3° 35.6′	14998	50618	72° 45.8′
1957	14972	955	48374	3° 39.0′	15002	50647	72° 46.2′
1958	14976	968	48403	3° 41.9′	15007	50676	72° 46.4′
1959	14978	980	48436	3° 44.6′	15010	50708	72° 46.9′
1960	14982	994	48474	3° 47.7′	15015	50746	72° 47.4′
1961	15004	1001	48501	3° 49.0′	15037	50779	72° 46.5′
1962	15019	1011	48522	3° 51.1′	15053	50803	72° 45.9′
1963	15025	1020	48547	3° 53.0′	15060	50829	72° 45.9′
1964	15039	1025	48565	3° 53.9′	15074	50851	72° 45.4′
1965	15050	1028	48580	3° 54.5′	15085	50868	72° 45.0′
1966	15055	1030	48603	3° 54.8′	15090	50892	72° 45.1′
1967	15056	1029	48631	3° 54.6′	15091	50919	72° 45.6′
1968	15069	1024	48658	3° 53.3′	15104	50948	72° 45.3′
1969	15084	1015	48684	3° 51.0′	15118	50977	72° 44.9′
1970	15099	1007	48717	3° 48.9′	15133	51013	72° 44.6′
1971	15119	1002	48746	3° 47.5′	15152	51047	72° 44.0′
1972	15133	1003	48781	3° 47.5′	15166	51084	72° 43.8′
1973	15145	1007	48818	3° 48.2′	15178	51123	72° 43.7′
1974	15155	1015	48858	3° 49.9′	15189	51165	72° 43.8′
1975	15166	1023	48895	3° 51.5′	15200	51203	72° 43.8′
1976	15177	1038	48931	3° 54.8′	15212	51241	72° 43.8′
1977	15179	1057	48963	3° 59.0′	15216	51273	72° 44.2′
1978	15171	1079	49005	4° 04.1′	15209	51311	72° 45.5′
1979	15166	1099	49030	4° 08.7′	15206	51334	72° 46.2′
1980	15161	1116	49043	4° 12.6′	15202	51345	72° 46.7′
1981	15142	1143	49070	4° 19.0′	15185	51366	72° 48.3′
1982	15121	1160	49091	4° 23.2′	15165	51380	72° 50.0′
1983	15109	1180	49101	4° 27.9′	15155	51387	72° 50.8′
1984	15089	1198	49112	4° 32.4′	15136	51392	72° 52.2′
1985	15070	1215	49125	4° 36.6′	15119	51399	72° 53.6′
1986	15048	1233	49144	4° 41.1′	15098	51411	72° 55.3′
1987	15033	1248	49158	4° 44.7′	15085	51420	72° 56.4′
1988	15009	1265	49185	4° 49.1′	15062	51440	72° 58.4′
1989	14986	1280	49214	4° 52.9′	15041	51461	73° 00.4′
1990	14975	1291	49230	4° 55.6′	15031	51473	73° 01.3′
1991	14957	1306	49251	4° 59.4′	15014	51489	73° 02.8′
1992	14952	1321	49263	5° 02.9′	15010	51499	73° 03.3′
1993	14946	1343	49278	5° 08.1′	15006	51512	73° 03.8′
1994	14935	1369	49303	5° 14.2′	14998	51534	73° 04.8′
1995	14931	1395	49329	5° 20.3′	14996	51558	73° 05.4′
1996	14928	1423	49353	5° 26.7′	14996	51581	73° 05.9′
1997	14918	1454	49388	5° 34.0′	14989	51612	73° 07.1′
1998	14905	1485	49431	5° 41.4′	14979	51651	73° 08.5′
1999	14901	1514	49468	5° 48.1′	14978	51686	73° 09.3′
2000	14893	1542	49512	5° 54.7′	14973	51726	73° 10.5′
2001	14895	1571	49550	6° 01.2′	14978	51764	73° 10.9′
2002	14895	1601	49594	6° 08.1′	14981	51807	73° 11.5′
2003	14885	1636	49643	6° 16.3′	14975	51852	73° 12.9′
2004	14888	1663	49677	6° 22.4′	14981	51887	73° 13.1′
2005	14885	1691	49713	6° 28.9′	14981	51921	73° 13.8′
2006	14885	1720	49740	6° 35.5′	14984	51948	73° 14.1′
2007	14884	1751	49774	6° 42.6′	14987	51981	73° 14.6′
2008	14882	1784	49808	6° 50.1′	14989	52014	73° 15.1′
2009	14879	1821	49839	6° 58.7′	14990	52044	73° 15.6′
2010	14867	1863	49877	7° 08.6′	14983	52079	73° 16.8′
2011	14853	1905	49916	7° 18.5′	14975	52114	73° 18.1′
2012	14841	1950	49956	7° 29.1′	14969	52150	73° 19.2′
2013	14833	1992	49990	7° 38.9′	14966	52182	73° 20.0′
2014	14825	2032	50026	7° 48.3′	14964	52216	73° 20.8′
2015	14807	2075	50074	7° 58.6′	14952	52259	73° 22.5′
2016	14799	2119	50116	8° 08.9′	14950	52298	73° 23.4′

16.2 Quiet Days

Year	X	Y	Z	D	H	F	I
1953	14975	872	48235	3° 20.0′	15000	50514	72° 43.5′
1954	14977	895	48266	3° 25.2′	15004	50544	72° 43.9′
1955	14980	919	48302	3° 30.6′	15008	50580	72° 44.4′
1956	14978	936	48343	3° 34.6′	15007	50619	72° 45.2′
1957	14978	951	48372	3° 38.0′	15008	50647	72° 45.8′
1958	14984	965	48400	3° 41.1′	15015	50676	72° 45.9′
1959	14986	976	48433	3° 43.6′	15018	50708	72° 46.4′
1960	14993	989	48474	3° 46.4′	15026	50749	72° 46.7′
1961	15010	998	48501	3° 48.2′	15043	50780	72° 46.1′
1962	15022	1009	48523	3° 50.6′	15056	50805	72° 45.7′
1963	15032	1018	48547	3° 52.5′	15066	50831	72° 45.5′
1964	15042	1024	48566	3° 53.7′	15077	50852	72° 45.2′
1965	15051	1027	48581	3° 54.2′	15086	50869	72° 44.9′
1966	15059	1028	48602	3° 54.3′	15094	50892	72° 44.8′
1967	15062	1028	48630	3° 54.3′	15097	50920	72° 45.2′
1968	15073	1022	48657	3° 52.7′	15108	50948	72° 45.1′
1969	15089	1013	48684	3° 50.4′	15123	50979	72° 44.6′
1970	15104	1005	48715	3° 48.4′	15137	51013	72° 44.3′
1971	15124	1001	48746	3° 47.2′	15157	51048	72° 43.6′
1972	15139	1001	48780	3° 47.0′	15172	51085	72° 43.4′
1973	15151	1004	48819	3° 47.5′	15184	51126	72° 43.4′
1974	15162	1012	48859	3° 49.1′	15196	51167	72° 43.4′
1975	15171	1020	48896	3° 50.8′	15205	51206	72° 43.5′
1976	15182	1035	48930	3° 54.0′	15217	51242	72° 43.5′
1977	15184	1054	48963	3° 58.2′	15221	51274	72° 43.9′
1978	15178	1075	49003	4° 03.1′	15216	51311	72° 45.0′
1979	15171	1096	49028	4° 07.9′	15211	51333	72° 45.8′
1980	15163	1115	49042	4° 12.3′	15204	51345	72° 46.5′
1981	15148	1140	49067	4° 18.2′	15191	51365	72° 47.9′
1982	15128	1157	49090	4° 22.4′	15172	51381	72° 49.5′
1983	15115	1176	49101	4° 26.9′	15161	51388	72° 50.5′
1984	15095	1195	49113	4° 31.6′	15142	51394	72° 51.9′
1985	15076	1212	49125	4° 35.8′	15125	51401	72° 53.2′
1986	15055	1230	49144	4° 40.2′	15105	51413	72° 54.9′
1987	15037	1246	49158	4° 44.2′	15089	51422	72° 56.2′
1988	15014	1262	49182	4° 48.3′	15067	51438	72° 58.1′
1989	14995	1276	49213	4° 51.8′	15049	51463	72° 59.8′
1990	14982	1288	49227	4° 54.8′	15037	51472	73° 00.8′
1991	14965	1302	49248	4° 58.3′	15022	51488	73° 02.2′
1992	14959	1318	49261	5° 02.1′	15017	51499	73° 02.8′
1993	14952	1341	49277	5° 07.5′	15012	51513	73° 03.4′
1994	14944	1365	49304	5° 13.1′	15006	51537	73° 04.3′
1995	14937	1392	49328	5° 19.4′	15002	51559	73° 05.1′
1996	14934	1421	49353	5° 26.1′	15001	51583	73° 05.6′
1997	14923	1452	49388	5° 33.4′	14993	51614	73° 06.7′
1998	14910	1484	49431	5° 41.0′	14984	51652	73° 08.2′
1999	14905	1512	49467	5° 47.5′	14981	51686	73° 09.0′
2000	14900	1540	49510	5° 54.1′	14979	51726	73° 10.0′
2001	14901	1569	49548	6° 00.6′	14983	51764	73° 10.5′
2002	14901	1599	49593	6° 07.5′	14987	51808	73° 11.1′
2003	14896	1632	49644	6° 15.1′	14985	51856	73° 12.2′
2004	14894	1660	49677	6° 21.6′	14986	51888	73° 12.8′
2005	14891	1689	49714	6° 28.3′	14986	51924	73° 13.5′
2006	14889	1718	49740	6° 34.9′	14988	51949	73° 13.9′
2007	14887	1749	49774	6° 42.0′	14989	51982	73° 14.4′
2008	14885	1783	49808	6° 49.8′	14991	52015	73° 14.9′
2009	14880	1821	49839	6° 58.6′	14991	52045	73° 15.6′
2010	14869	1862	49877	7° 08.3′	14985	52079	73° 16.7′
2011	14856	1904	49916	7° 18.2′	14978	52115	73° 17.9′
2012	14844	1949	49956	7° 28.8′	14971	52151	73° 19.0′
2013	14837	1991	49990	7° 38.6′	14970	52183	73° 19.7′
2014	14828	2030	50025	7° 47.7′	14966	52216	73° 20.6′
2015	14814	2073	50073	7° 58.0′	14958	52260	73° 22.1′
2016	14803	2117	50117	8° 08.3′	14954	52300	73° 23.2′

16.3 Disturbed Days

Year	X	Y	Z	D	H	F	I
1953	14959	879	48230	3° 21.8′	14985	50504	72° 44.4′
1954	14968	899	48264	3° 26.2′	14995	50540	72° 44.4′
1955	14967	924	48301	3° 32.0′	14995	50575	72° 45.2′
1956	14952	945	48344	3° 37.0′	14982	50612	72° 46.9′
1957	14959	961	48376	3° 40.5′	14990	50645	72° 47.0′
1958	14958	974	48407	3° 43.5′	14990	50675	72° 47.7′
1959	14963	986	48439	3° 46.2′	14995	50707	72° 47.9′
1960	14960	1004	48468	3° 50.4′	14994	50734	72° 48.6′
1961	14992	1005	48498	3° 50.1′	15026	50772	72° 47.2′
1962	15013	1013	48522	3° 51.6′	15047	50802	72° 46.3′
1963	15014	1025	48543	3° 54.3′	15049	50822	72° 46.6′
1964	15035	1027	48564	3° 54.5′	15070	50848	72° 45.6′
1965	15044	1030	48580	3° 55.0′	15079	50866	72° 45.3′
1966	15046	1033	48602	3° 55.7′	15081	50888	72° 45.6′
1967	15042	1034	48630	3° 55.9′	15077	50914	72° 46.5′
1968	15061	1028	48659	3° 54.3′	15096	50947	72° 45.8′
1969	15074	1019	48684	3° 52.0′	15108	50974	72° 45.5′
1970	15089	1011	48721	3° 50.0′	15123	51014	72° 45.4′
1971	15111	1006	48746	3° 48.5′	15144	51044	72° 44.5′
1972	15122	1007	48780	3° 48.6′	15155	51080	72° 44.4′
1973	15133	1013	48816	3° 49.8′	15167	51118	72° 44.4′
1974	15147	1019	48857	3° 50.9′	15181	51161	72° 44.3′
1975	15157	1027	48892	3° 52.6′	15192	51198	72° 44.3′
1976	15166	1042	48931	3° 55.8′	15202	51238	72° 44.5′
1977	15169	1061	48962	4° 00.1′	15206	51269	72° 44.8′
1978	15158	1086	49006	4° 05.9′	15197	51308	72° 46.3′
1979	15158	1103	49031	4° 09.7′	15198	51332	72° 46.7′
1980	15153	1120	49046	4° 13.6′	15194	51346	72° 47.2′
1981	15133	1146	49073	4° 19.8′	15176	51366	72° 48.9′
1982	15106	1166	49089	4° 24.8′	15151	51374	72° 50.9′
1983	15099	1184	49099	4° 29.0′	15145	51382	72° 51.4′
1984	15078	1203	49108	4° 33.7′	15126	51385	72° 52.8′
1985	15061	1219	49124	4° 37.6′	15110	51395	72° 54.1′
1986	15037	1237	49141	4° 42.2′	15088	51405	72° 55.9′
1987	15027	1250	49161	4° 45.3′	15079	51422	72° 56.9′
1988	15001	1268	49186	4° 49.9′	15054	51438	72° 58.9′
1989	14968	1287	49212	4° 54.9′	15023	51454	73° 01.4′
1990	14964	1296	49232	4° 57.0′	15020	51472	73° 02.0′
1991	14942	1313	49257	5° 01.3′	15000	51490	73° 03.8′
1992	14943	1324	49264	5° 03.8′	15002	51497	73° 03.8′
1993	14937	1348	49277	5° 09.4′	14998	51509	73° 04.3′
1994	14924	1373	49300	5° 15.4′	14987	51528	73° 05.5′
1995	14924	1398	49328	5° 21.1′	14989	51555	73° 05.9′
1996	14923	1425	49350	5° 27.3′	14991	51577	73° 06.2′
1997	14909	1457	49388	5° 34.9′	14980	51610	73° 07.6′
1998	14893	1489	49431	5° 42.6′	14967	51647	73° 09.3′
1999	14891	1517	49468	5° 49.0′	14968	51683	73° 09.9′
2000	14878	1547	49514	5° 56.2′	14958	51724	73° 11.4′
2001	14880	1576	49554	6° 02.8′	14963	51764	73° 11.9′
2002	14886	1604	49594	6° 09.0′	14972	51805	73° 12.1′
2003	14866	1643	49641	6° 18.4′	14957	51845	73° 14.0′
2004	14875	1669	49675	6° 24.1′	14968	51881	73° 13.9′
2005	14879	1696	49711	6° 30.2′	14975	51918	73° 14.1′
2006	14878	1722	49738	6° 36.1′	14977	51944	73° 14.5′
2007	14880	1754	49773	6° 43.4′	14983	51979	73° 14.8′
2008	14879	1787	49807	6° 50.9′	14986	52013	73° 15.3′
2009	14877	1822	49838	6° 58.9′	14988	52043	73° 15.7′
2010	14861	1865	49877	7° 09.2′	14978	52077	73° 17.1′
2011	14846	1908	49914	7° 19.4′	14968	52110	73° 18.4′
2012	14832	1953	49956	7° 30.1′	14960	52148	73° 19.7′
2013	14825	1994	49989	7° 39.6′	14958	52179	73° 20.5′
2014	14820	2034	50026	7° 48.9′	14959	52215	73° 21.1′
2015	14939	2079	50073	7° 55.4′	15083	52295	73° 14.2′
2016	14789	2122	50114	8° 09.9′	14940	52294	73° 23.9′

17 Earth's Magnetic Field Maps of Finland 2017.0

The isolines of total field (F) and horizontal field (H) are given in nanoteslas (nT), declination (D, positive eastwards) and inclination (I, positive downwards) in degrees of arc.

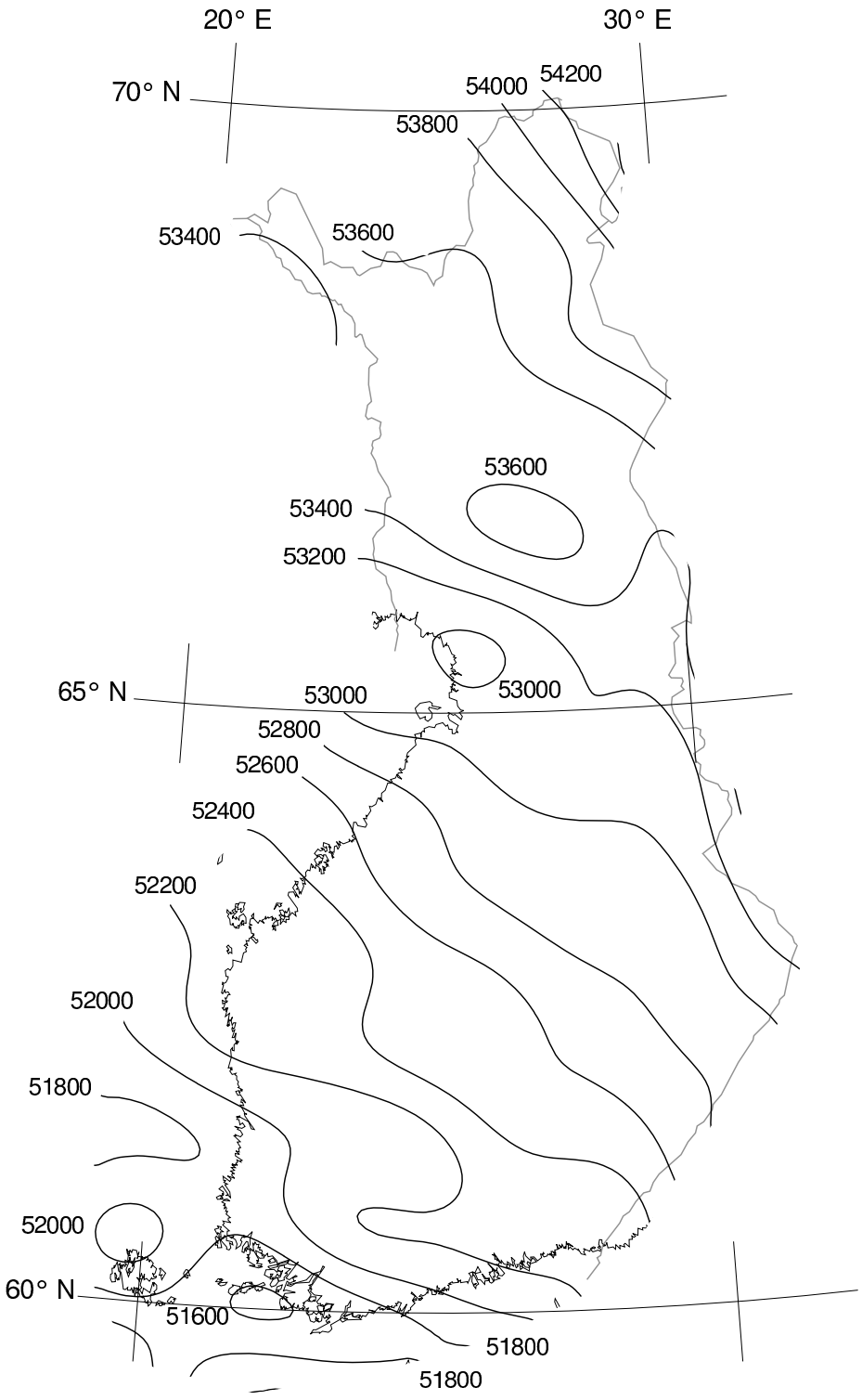


Figure 14: Total intensity F 2017.0 in nT

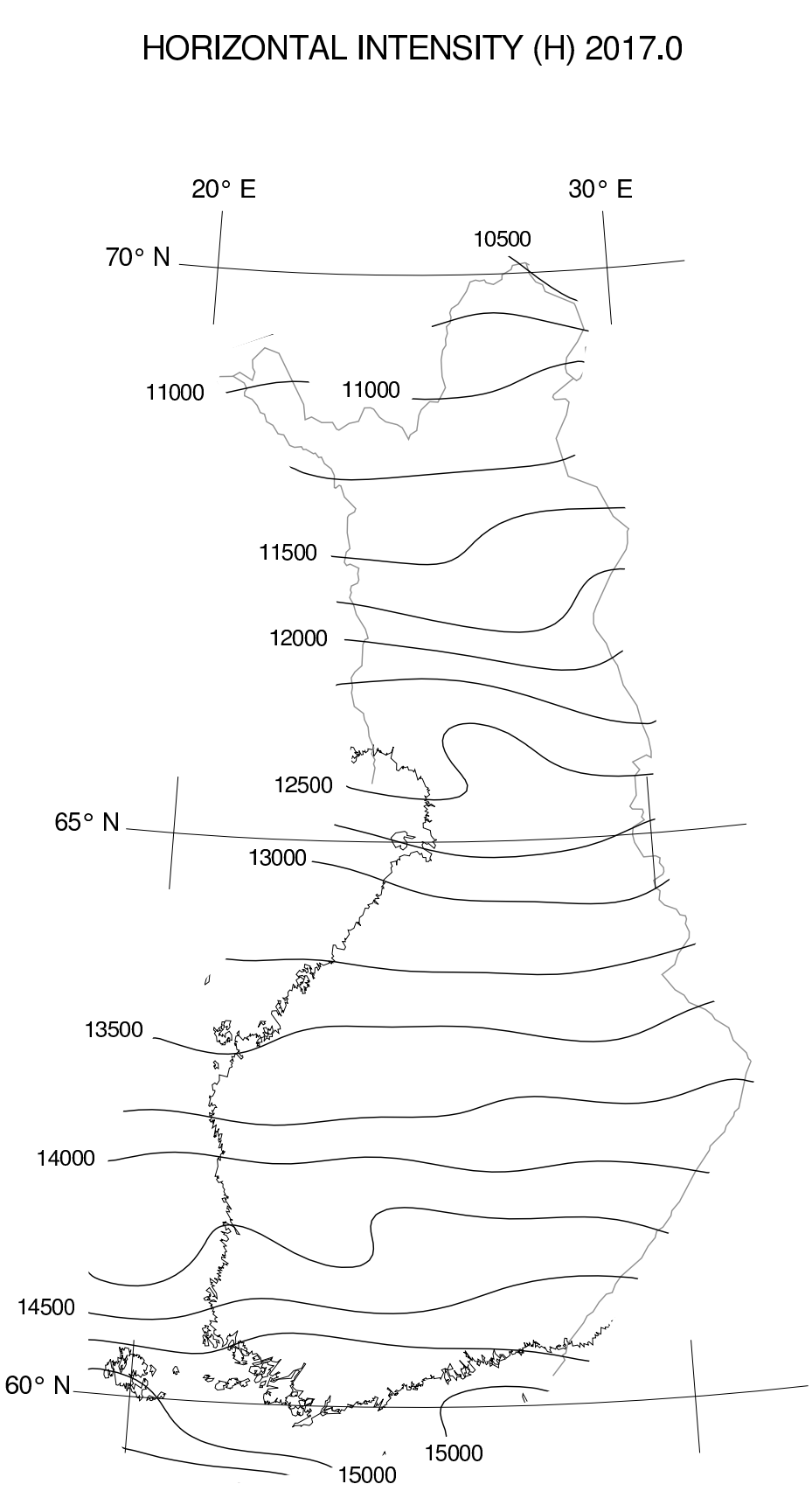


Figure 15: Horizontal intensity H 2017.0 in nT

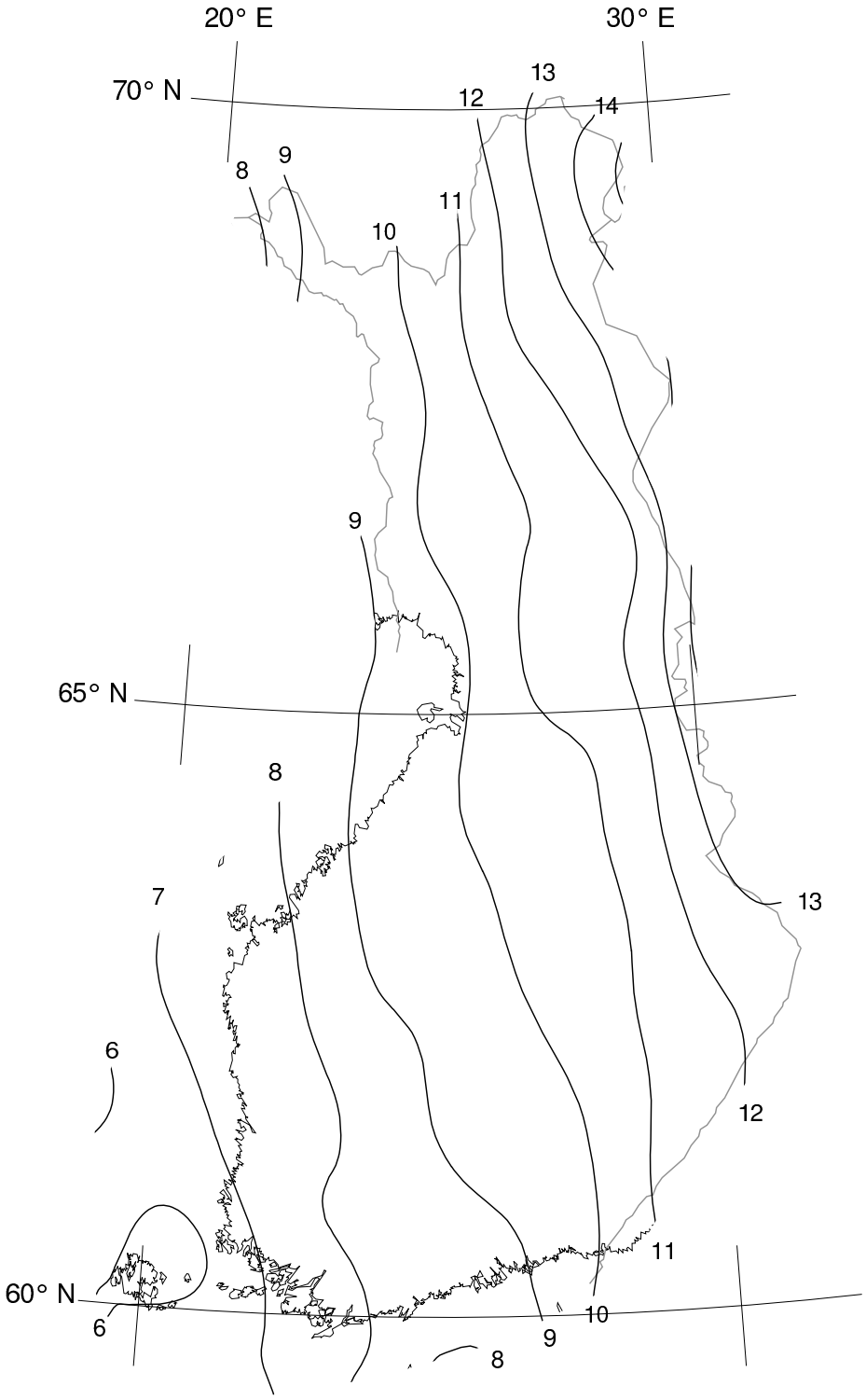


Figure 16: Declination D 2017.0 in degreees

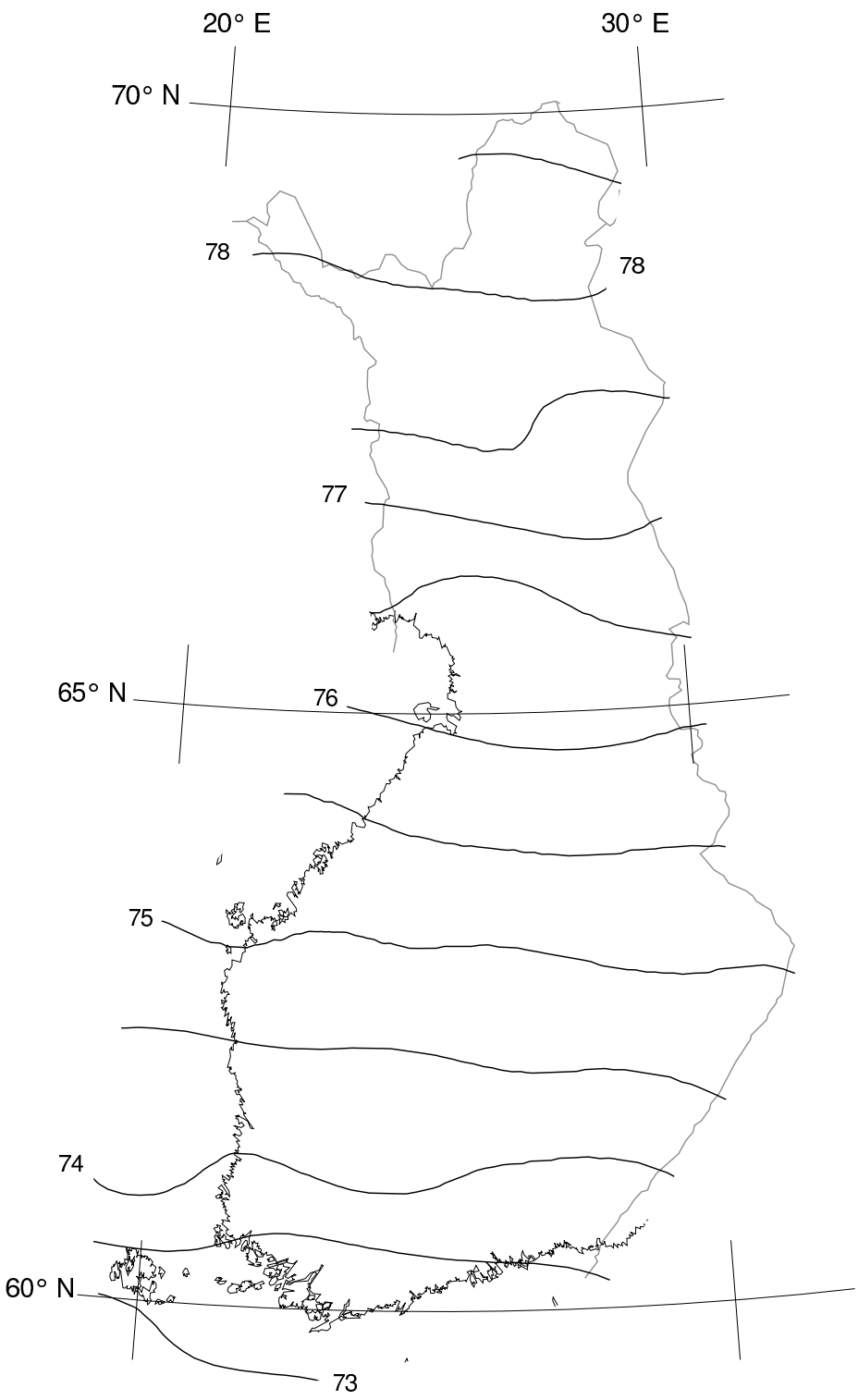


Figure 17: Inclination I 2017.0 in degrees

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ILMATIETEEN LAITOS
METEOROLOGISKA INSTITUTET
FINNISH METEOROLOGICAL INSTITUTE

FINNISH METEOROLOGICAL INSTITUTE
Erik Palménin aukio 1
P.O. Box 503
FI-00560 HELSINKI
tel. +358 29 539 1000
WWW.FMI.FI

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